



เอกสารแนบที่ 20


รายงานการตรวจสอบสภาพและความหนาของระบบท่อ

Dacon		PIPING VISUAL INSPECTION LOG				Report/Project	Sheet						
						2112012	VT 2/9						
ST1-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving Line (Jetty to Tank No.1,2,3))													
Degradation		N/A	Normal	Minor	Moderate	Severe	Remark						
Corrosion		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
CUI		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Paint		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Insulation		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Supports		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Vibration		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Misalignment		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Mech. Damage		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Leak		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Other		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Severity to be determined as follows: <table border="0"> <tr> <td>Minor:</td> <td>For findings that don't require action</td> </tr> <tr> <td>Moderate:</td> <td>For findings that require action (specify time)</td> </tr> <tr> <td>Severe:</td> <td>For findings that require immediate action</td> </tr> </table>								Minor:	For findings that don't require action	Moderate:	For findings that require action (specify time)	Severe:	For findings that require immediate action
Minor:	For findings that don't require action												
Moderate:	For findings that require action (specify time)												
Severe:	For findings that require immediate action												
<div style="text-align: right;">N</div>													

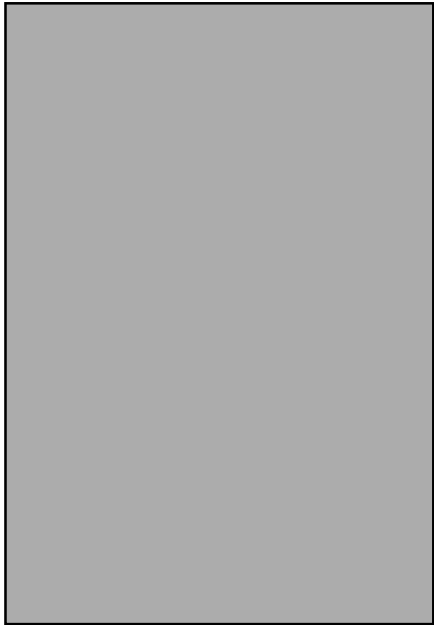
Dacon		PIPING VISUAL INSPECTION LOG				Report/Project	Sheet						
						2112012	VT 3/9						
ST1-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving Line (Jetty to Tank No.1,2,3))													
Degradation		N/A	Normal	Minor	Moderate	Severe	Remark						
Corrosion		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
CUI		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Paint		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Insulation		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Supports		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Vibration		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Misalignment		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Mech. Damage		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Leak		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Other		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Severity to be determined as follows: <table border="0"> <tr> <td>Minor:</td> <td>For findings that don't require action</td> </tr> <tr> <td>Moderate:</td> <td>For findings that require action (specify time)</td> </tr> <tr> <td>Severe:</td> <td>For findings that require immediate action</td> </tr> </table>								Minor:	For findings that don't require action	Moderate:	For findings that require action (specify time)	Severe:	For findings that require immediate action
Minor:	For findings that don't require action												
Moderate:	For findings that require action (specify time)												
Severe:	For findings that require immediate action												
<div style="text-align: right;">N</div>													

	PIPING VISUAL INSPECTION LOG				Report/ Project	Sheet
STI-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving line (Jetty to Tank No.1,2,3))				2112012	VT 4/9	
Degradation						
N/A						
Corrosion						
CUS						
Paint						
Insulation						
Supports						
Vibration						
Misalignment						
Mech. Damage						
Leak						
Other						
Severity to be determined as follows:						
Minor: For findings that don't require action				Highlighted in yellow in ISO		
Moderate: For findings that require action (specify time)				Highlighted in Orange in ISO		
Severe: For findings that require immediate action						
N						


	PIPING VISUAL INSPECTION LOG				Report/ Project	Sheet
STI-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving line (Jetty to Tank No.1,2,3))				2112012	VT 5/9	
Degradation						
N/A						
Corrosion						
CUS						
Paint						
Insulation						
Supports						
Vibration						
Misalignment						
Mech. Damage						
Leak						
Other						
Severity to be determined as follows:						
Minor: For findings that don't require action				Highlighted in yellow in ISO		
Moderate: For findings that require action (specify time)				Highlighted in Orange in ISO		
Severe: For findings that require immediate action						
N						

	PIPING VISUAL INSPECTION LOG				Report/ Project	2112012	Sheet
STT-CC-001-02-01 (TBL 001: G-Base 95 Tank Receiving Line (Jetty to Tank No.1,2,3))							
Degradation x x x x mm	N/A	Minor	Moderate	Severe	Remark		
<input type="checkbox"/> Corrosion	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> CUS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/> Paint	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> Insulation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/> Supports	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> Vibration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/> Misalignment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> Mech. Damage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> Leak	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Severity to be determined as follows:							
Minor:		Moderate		Severe			
For findings that don't require action		For findings that require action (specify time)		Highlighted in yellow in ISO			
For findings that require immediate action		For findings that require immediate action		Highlighted in Orange in ISO			

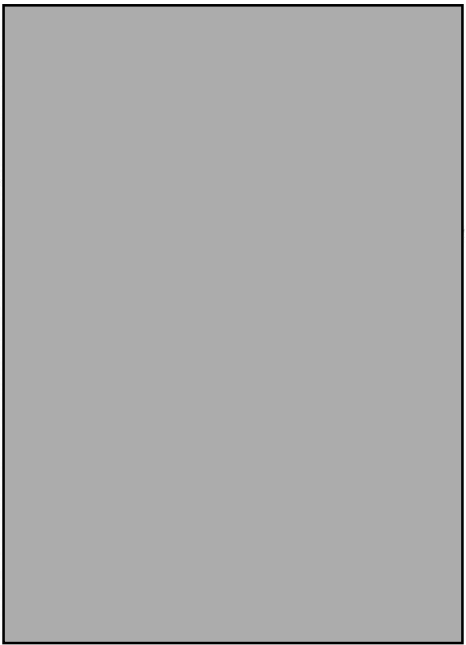
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STT-CC-001-02-01 (TBL 001: G-Base 95 Tank Receiving Line (Jetty to Tank No.1,2,3))


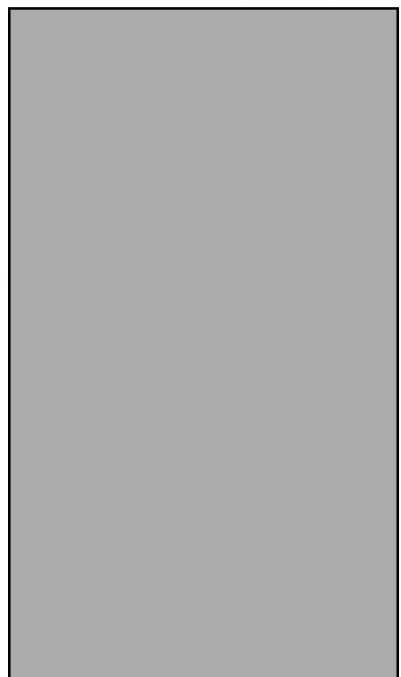
	PIPING VISUAL INSPECTION LOG				Report/ Project	2112012	Sheet
STT-CC-001-02-01 (TBL 001: G-Base 95 Tank Receiving Line (Jetty to Tank No.1,2,3))							
Degradation x x x x mm	N/A	Minor	Moderate	Severe	Remark		
<input type="checkbox"/> Corrosion	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> CUS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/> Paint	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> Insulation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/> Supports	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> Vibration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/> Misalignment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> Mech. Damage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> Leak	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Severity to be determined as follows:							
Minor:		Moderate		Severe			
For findings that don't require action		For findings that require action (specify time)		Highlighted in yellow in ISO			
For findings that require immediate action		For findings that require immediate action		Highlighted in Orange in ISO			

N


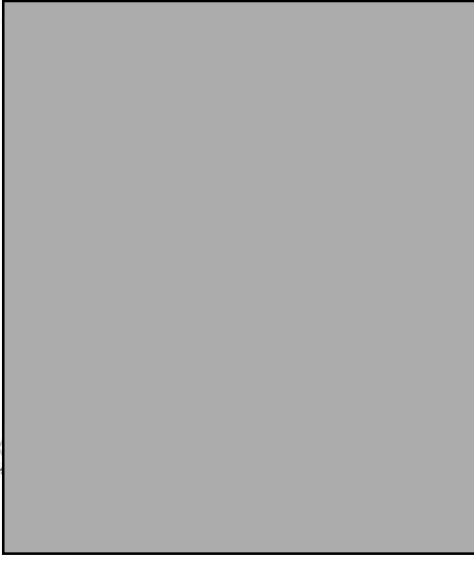








STT-CC-001-02-01 (TBL 001: G-Base 95 Tank Receiving Line (Jetty to Tank No.1,2,3))





Dacon		PIPING VISUAL INSPECTION LOG				Report/Project	Sheet
						2112012	VT 8/9
ST-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving Line (Jetty to Tank No.1,2,3))							
Degradation		N/A	Normal	Minor	Moderate	Severe	Remark
<input type="checkbox"/> Corrosion		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> CUS		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Paint		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Insulation		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Supports		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Vibration		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Misalignment		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Mech. Damage		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Leak		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Other		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Severity to be determined as follows:		Minor: Moderate Severe		For findings that don't require action For findings that require action (specify time) For findings that require immediate action		Highlighted in yellow in ISO Highlighted in Orange in ISO	




Dacon		PIPING VISUAL INSPECTION LOG				Report/Project	Sheet
						2112012	VT 9/9
ST-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving Line (Jetty to Tank No.1,2,3))							
Degradation		N/A	Normal	Minor	Moderate	Severe	Remark
<input type="checkbox"/> Corrosion		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> CUS		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Paint		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Insulation		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Supports		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Vibration		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Misalignment		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Mech. Damage		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Leak		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Other		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Severity to be determined as follows:		Minor: Moderate Severe		For findings that don't require action For findings that require action (specify time) For findings that require immediate action		Highlighted in yellow in ISO Highlighted in Orange in ISO	


DASON		PIPING INSPECTION PICTURE LOG		Report/ Project	Sheet
				2112012	PL 1/9
STT-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving line (Jetty to Tank No.1,2,3))					
	Name of part / Location TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Findings Still in normal condition		Name of part / Location TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Findings Still in normal condition
	Name of part / Location TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Findings Still in normal condition		Name of part / Location TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Findings Still in normal condition
	Name of part / Location TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Findings Still in normal condition		Name of part / Location TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Findings Still in normal condition

DASON		PIPING INSPECTION PICTURE LOG		Report/ Project	Sheet
				2112012	PL 2/9
STI-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving line (Jetty to Tank No.1,2,3))					
	Name of part / Location TRL 001 Tank Receiving line (Jetty to Tank No.3,10) Anomaly no : 2.1	Findings Painting deterioration and general corrosion on pipe		Name of part / Location TRL 001 Tank Receiving line (Jetty to Tank No.3,10) Anomaly no : 2.1	Findings Painting deterioration and general corrosion on pipe
	Name of part / Location TRL 001 Tank Receiving line (Jetty to Tank No.3,10) Anomaly no : 2.2	Findings Painting deterioration and general corrosion on elbow		Name of part / Location TRL 001 Tank Receiving line (Jetty to Tank No.3,10) Anomaly no : 2.2	Findings Painting deterioration and general corrosion on elbow
	Name of part / Location TRL 001 Tank Receiving line (Jetty to Tank No.3,10) Anomaly no : 2.3	Findings Painting deterioration and general corrosion on pipe		Name of part / Location TRL 001 Tank Receiving line (Jetty to Tank No.3,10) Anomaly no : 2.3	Findings Painting deterioration and general corrosion on pipe

DICON	PIPING INSPECTION PICTURE LOG		Report/ Project	Sheet
	STT-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving line (Jetty to Tank No.1,2,3))		2112012	PL 3 /9
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Painting deterioration and general corrosion on pipe Anomaly no : 3.1	TRL 001 Tank Receiving line (Jetty to Tank No.3,10) Anomaly no : 3.1	Painting deterioration and general corrosion on pipe

DICON	PIPING INSPECTION PICTURE LOG		Report/ Project	Sheet
	STT-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving line (Jetty to Tank No.1,2,3))		2112012	PL 4 /9
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition

DAGON	PIPING INSPECTION PICTURE LOG		Report/ Project	Sheet
	STI-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving line (Jetty to Tank No.1,2,3))		2112012	PL 5/9
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition



DAGON	PIPING INSPECTION PICTURE LOG		Report/ Project	Sheet
	STI-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving line (Jetty to Tank No.1,2,3))		2112012	PL 6/9
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 001 Tank Receiving line (Jetty to Tank No.3,10) Anomaly no : 6.1	general corrosion on U-bolt support	TRL 001 Tank Receiving line (Jetty to Tank No.3,10) Anomaly no : 6.1	general corrosion on U-bolt support
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition

DAICON		PIPING INSPECTION PICTURE LOG		Report/ Project	Sheet
				2112012	PL 7/9
STT-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving line (Jetty to Tank No.1,2,3))					
	Name of part / Location	Findings		Name of part / Location	Findings
TRL 001 Tank Receiving line (Jetty to Tank No.3,10)		Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)		Still in normal condition
	Name of part / Location	Findings		Name of part / Location	Findings
TRL 001 Tank Receiving line (Jetty to Tank No.3,10)		Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)		Still in normal condition
	Name of part / Location	Findings		Name of part / Location	Findings
TRL 001 Tank Receiving line (Jetty to Tank No.3,10)		Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)		Still in normal condition

DAKON					PIPING INSPECTION PICTURE LOG		Report/ Project		Sheet		
					2112012		PL 8/9				
STT-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving line (Jetty to Tank No.1,2,3))											
		Name of part / Location		Findings				Name of part / Location		Findings	
TRL 001 Tank Receiving line (Jetty to Tank No.3,10)				Still in normal condition		TRL 001 Tank Receiving line (Jetty to Tank No.3,10)				Still in normal condition	
		Name of part / Location		Findings				Name of part / Location		Findings	
TRL 001 Tank Receiving line (Jetty to Tank No.3,10)				Still in normal condition		TRL 001 Tank Receiving line (Jetty to Tank No.3,10)				Still in normal condition	
		Name of part / Location		Findings				Name of part / Location		Findings	
TRL 001 Tank Receiving line (Jetty to Tank No.3,10)				Still in normal condition		TRL 001 Tank Receiving line (Jetty to Tank No.3,10)				Still in normal condition	

DAICON		PIPING INSPECTION PICTURE LOG		Report/Project	Sheet
STT-CC-001-02-01 (TRL 001, G-Base 95 Tank Receiving line (jetty to Tank No.1,2,3))		2112012	PL 9/9		
		<p>Name of part / location</p> <p>Findings</p>	<p>Name of part / location</p> <p>Findings</p>	<p>Name of part / location</p> <p>Findings</p>	<p>Name of part / location</p> <p>Findings</p>
TRL 001 Tank Receiving line (jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (jetty to tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (jetty to Tank No.3,10)	Still in normal condition
		<p>Name of part / location</p> <p>Findings</p>	<p>Name of part / location</p> <p>Findings</p>	<p>Name of part / location</p> <p>Findings</p>	<p>Name of part / location</p> <p>Findings</p>
TRL 001 Tank Receiving line (jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (jetty to Tank No.3,10)	Still in normal condition
		<p>Name of part / location</p> <p>Findings</p>	<p>Name of part / location</p> <p>Findings</p>	<p>Name of part / location</p> <p>Findings</p>	<p>Name of part / location</p> <p>Findings</p>
TRL 001 Tank Receiving line (jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (jetty to Tank No.3,10)	Still in normal condition

CML	Size	Type	Direction	Nom.(Thk)		Min Required (mm)	ST1-CC-001-02-01(G Base 95)		
				1-Dec-16	(mm)		UTM date	UTM date	UTM date
13A	6"	Elbow	0°	90°	7.55	-	-	-	0.310
				180°	7.59	-	-	-	0.310
				0°	7.38	-	-	-	0.310
				270°	6.59	-	-	-	0.310
				90°	7.79	-	-	-	0.310
				180°	7.51	-	-	-	0.310
				0°	7.56	-	-	-	0.310
				270°	6.82	-	-	-	0.310
				90°	7.56	-	-	-	0.310
				180°	7.46	-	-	-	0.310
13C	6"	Elbow	0°	90°	7.56	-	-	-	0.310
				180°	7.56	-	-	-	0.310
				0°	7.24	-	-	-	0.310
				270°	6.76	-	-	-	0.310
				90°	7.01	-	-	-	0.310
				180°	7.09	-	-	-	0.310
				0°	6.97	-	-	-	0.310
				270°	7.69	-	-	-	0.310
				90°	7.38	-	-	-	0.310
				180°	7.57	-	-	-	0.310
15A	6"	Elbow	0°	90°	7.53	-	-	-	0.310
				180°	7.28	-	-	-	0.310
				0°	7.21	-	-	-	0.310
				270°	7.65	-	-	-	0.310
				90°	7.50	-	-	-	0.310
				180°	7.51	-	-	-	0.310
				0°	7.21	-	-	-	0.310
				270°	7.51	-	-	-	0.310
				90°	7.21	-	-	-	0.310
				180°	7.28	-	-	-	0.310
15B	6"	Elbow	0°	90°	7.21	-	-	-	0.310
				180°	7.28	-	-	-	0.310
				0°	7.21	-	-	-	0.310
				270°	7.65	-	-	-	0.310
				90°	7.50	-	-	-	0.310
				180°	7.51	-	-	-	0.310
				0°	7.21	-	-	-	0.310
				270°	7.51	-	-	-	0.310
				90°	7.21	-	-	-	0.310
				180°	7.28	-	-	-	0.310
15C	6"	Elbow	0°	90°	7.21	-	-	-	0.310
				180°	7.28	-	-	-	0.310
				0°	7.21	-	-	-	0.310
				270°	7.65	-	-	-	0.310
				90°	7.50	-	-	-	0.310
				180°	7.51	-	-	-	0.310
				0°	7.21	-	-	-	0.310
				270°	7.51	-	-	-	0.310
				90°	7.21	-	-	-	0.310
				180°	7.28	-	-	-	0.310
16	6"	Pipe	0°	90°	7.21	-	-	-	0.310
				180°	7.28	-	-	-	0.310
				0°	7.21	-	-	-	0.310
				270°	7.65	-	-	-	0.310
				90°	7.50	-	-	-	0.310
				180°	7.51	-	-	-	0.310
				0°	7.21	-	-	-	0.310
				270°	7.51	-	-	-	0.310
				90°	7.21	-	-	-	0.310
				180°	7.28	-	-	-	0.310

		PIPING INSPECTION SUMMARY REPORT				Report Project 211012		Sheet 5 / 1	
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9)									
Date of Inspections: 16 December 2021									

Piping data									
Line ID :		TRL 002 Tank Receiving line							
Product :		G-Base 91							
Material :		API 5L GR B							
Line Description :		Jetty to Tank No.9							
Diameter / Schedule :		6 inch, Sch. STD. 1 nom : 7.11 mm.							
Insulation :		N/A							

Design and calculations									
Design Pressure P :		285 psi ← (Max. Operating Pressure)							
Diameter D :		6 inch							
Stress S (Table A1) :		20.0 ksi							
Q Factor E (Table A2 for 2 B1) :		1							
Coefficient Y (Table A4.1.3) :		0.4							
T _{min} = PD / 2(S+EY)		T _{min} = 6 inch / 2(20.0 ksi + 1 * 0.4 * 285 psi) = 0.34 mm.							
T _{min} minimum measured :		3.3 mm. 1/8" struc. 2.8 mm.							
Service life (from last reading) :		1995 / 27 years							
Corrosion Rate :		0.147 mm./year							
The estimated remaining life for this line is 23.18 years									

UT settings									
Procedure :		P-INT13 rev. 01							
Equipment type, S/N :		Olympus 3801 plus S/M.151036202							
Cal block, S/N :		CS 0541							
Material Temperature :		Ambient							
Probe type, S/N :		D790-SM 5 MHz.							
Calibration step :		6 mm.		High		10 mm.			

LRUT summary									
Approximate length :		-							
Equipment type, S/N :		-							
Nr of LRUT indications :		-		-		-		-	
Nr. of tool locations :		-							
Probe collar, nr of barrels :		-							
Category 1 :		-		-		-		-	
Category 2 :		-		-		-		-	
Category 3 :		-		-		-		-	


Pipe inspection summary									
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Visual Inspection (VT)									
1. Sealing sleeve underground pipe was found degradation, damage and corrosion under sleeve underground pipe.									
Approximate corrosion depth 1.5 mm.									
Ultrasonic Thickness Measurement (UTM)									
- UTM : The actual minimum thickness found as 5.44 mm.									
- Maximum Corrosion rate: 0.147 mm/yr									
- Minimum Remaining Life 23.18 yrs									

Recommendations									
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Visual Inspection (VT)									
1. Carry out alternative NDE (LRUT) to determine condition within 2 months. Then re-painting as per original design to prevention future corrosion.									

Ultrasonic Thickness Measurement (UTM)									
- Thickness monitoring should be performed at next 10 yrs interval.									

API Inspector 		LRUT Technician Name : Date : 30 Jan 2022		UT Technician Name : Date : 30 Jan 2022		Chevron Name : Date :	
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DICON		PIPING VISUAL INSPECTION LOG				Report/Project	Sheet
		TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9& Tank No.2)				2112012	VT-1/7
Degradation		N/A	Normal	Minor	Moderate	Severe	Remark
<input type="checkbox"/> Corrosion		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> CUS		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Paint		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Insulation		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Supports		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Vibration		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Misalignment		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Mech. Damage		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Leak		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Other		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Severity to be determined as follows:		Minor: Moderate Severe		For findings that don't require action For findings that require action (specify time) For findings that require immediate action		Highlighted in yellow in ISO Highlighted in Orange in ISO	

DICON		PIPING VISUAL INSPECTION LOG				Report/Project	Sheet
		TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9& Tank No.2)				2112012	VT-2/7
Degradation		N/A	Normal	Minor	Moderate	Severe	Remark
<input type="checkbox"/> Corrosion		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Slight corrosion on piping.
<input checked="" type="checkbox"/> CUS		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Paint		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Painting deterioration on pipe was observed.
<input checked="" type="checkbox"/> Insulation		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Supports		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Vibration		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Misalignment		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Mech. Damage		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Leak		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Other		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Severity to be determined as follows:		Minor: Moderate Severe		For findings that don't require action For findings that require action (specify time) For findings that require immediate action		Highlighted in yellow in ISO Highlighted in Orange in ISO	







Dacon		PIPING VISUAL INSPECTION LOG				Report/Project	Sheet
		TRL 002 G-Base 91 Tank Receiving line [Jetty to Tank No.98 (Tank No.2)]				2112012	VT 3/7
Degradation		N/A	Minor	Moderate	Severe	Remark	
<input type="checkbox"/> Corrosion		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/> CUS		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/> Paint		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Painting deterioration on pipe was observed.	
<input checked="" type="checkbox"/> Insulation		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/> Supports		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/> Vibration		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/> Misalignment		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/> Mech. Damage		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/> Leak		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/> Other		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Severity to be determined as follows:		Minor: Moderate Severe		For findings that don't require action For findings that require action (specify time) For findings that require immediate action		Highlighted in yellow in ISO Highlighted in Orange in ISO	



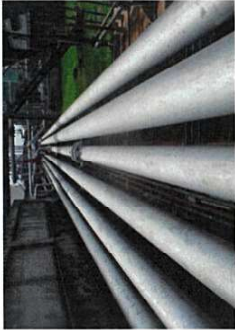

Dacon		PIPING VISUAL INSPECTION LOG				Report/Project	Sheet
		TRL 002 G-Base 91 Tank Receiving line [Jetty to Tank No.98 (Tank No.2)]				2112012	VT 4/7
Degradation		N/A	Minor	Moderate	Severe	Remark	
<input type="checkbox"/> Corrosion		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Severe corrosion under sealing.	
<input checked="" type="checkbox"/> CUS		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/> Paint		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Painting deterioration on pipe was observed. Coating damage on whole underground pipe section was observed.	
<input checked="" type="checkbox"/> Insulation		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/> Supports		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/> Vibration		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/> Misalignment		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/> Mech. Damage		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/> Leak		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/> Other		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sealing sleeve underground pipe damage was observed may cause to corrosion under pipe sleeve.	
Severity to be determined as follows:		Minor: Moderate Severe		For findings that don't require action For findings that require action (specify time) For findings that require immediate action		Highlighted in yellow in ISO Highlighted in Orange in ISO	




DICON		PIPING VISUAL INSPECTION LOG				Report/Project	Sheet
						2112012	VT 5/7
		TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.98 Tank No.2)					
Degradation		N/A	Normal	Minor	Moderate	Severe	Remark
Corrosion		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CUI		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Paint		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Insulation		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Supports		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Vibration		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Misalignment		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Mech. Damage		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Leak		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Severity to be determined as follows: Minor: For findings that don't require action Moderate: For findings that require action (specify time) Severe: For findings that require immediate action							

DICON		PIPING VISUAL INSPECTION LOG				Report/Project	Sheet
						2112012	VT 6/7
		TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.98 Tank No.2)					
Degradation		N/A	Normal	Minor	Moderate	Severe	Remark
Corrosion		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CUI		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Paint		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Painting deterioration on pipe was observed.
Insulation		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Supports		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Vibration		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Misalignment		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Mech. Damage		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Leak		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Severity to be determined as follows: Minor: For findings that don't require action Moderate: For findings that require action (specify time) Severe: For findings that require immediate action							











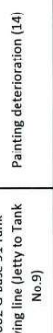

DASON		PIPING VISUAL INSPECTION LOG		Report/Project	Sheet
		TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9& Tank No.2)		2112012	VT 7/7
Degradation	N/A	Normal	Minor	Moderate	Severe
Corrosion	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CJS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Paint	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Supports	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vibration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Misalignment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mech. Damage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Leak	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Severity to be determined as follows:					
Minor:		For findings that don't require action			
Moderate		For findings that require action (specify time)			
Severe		For findings that require immediate action			
<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">N</div> <div style="border: 1px solid black; width: 100%; height: 100%; background-color: #cccccc;"></div> </div>					







DASON		PIPING INSPECTION PICTURE LOG		Report/Project	Sheet
		TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9& Tank No.2)		2112012	PL 1/7
		Name of part / Location TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9& Tank No.2)	Name of part / Location TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9& Tank No.2)	Findings Still in normal condition	Findings Still in normal condition
		Name of part / Location TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9& Tank No.2)	Name of part / Location TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9& Tank No.2)	Findings Still in normal condition	Findings Still in normal condition
		Name of part / Location TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9& Tank No.2)	Name of part / Location TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9& Tank No.2)	Findings Still in normal condition	Findings Still in normal condition







Dacon	PIPING INSPECTION PICTURE LOG		Report/Project	Sheet
	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		2112012	PL 2/7
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Still in normal condition	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Still in normal condition
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Still in normal condition	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Still in normal condition
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Slight corrosion on piping&Painting deterioration (1)	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Still in normal condition
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Still in normal condition	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Painting deterioration (2)

Dacon	PIPING INSPECTION PICTURE LOG		Report/Project	Sheet
	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		2112012	PL 3/7
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Slight corrosion on flange (3)	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Painting deterioration (4)
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Painting deterioration (5)	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Painting deterioration (6)
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Severe corrosion under sealing&sealing damage. (7)	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Still in normal condition

DASON		PIPING INSPECTION PICTURE LOG		Report/ Project		Sheet	
				2112012		PL 4/7	
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)							
			Name of part / Location TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Findings Still in normal condition			
			Name of part / Location TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Findings Still in normal condition			
			Name of part / Location TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Findings Painting deterioration (9)			
			Name of part / Location TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Findings Painting deterioration (10)			
			Name of part / Location TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Findings Painting deterioration (11)			

DASON		PIPING INSPECTION PICTURE LOG		Report/ Project	Sheet
		TRL 002 G-Base 91 Tank Receiving line (jetty to Tank No.9&Tank No.2)		21112012	PL 5/7
			Name of part / Location TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Findings Still in normal condition	
			Name of part / Location TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Findings Still in normal condition	
			Name of part / Location TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Findings Still in normal condition	
			Name of part / Location TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9)	Findings Still in normal condition	

DAGON	PIPING INSPECTION PICTURE LOG		Report/ Project	Sheet
	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		2112012	PL 6/7
	Findings	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Still in normal condition	
	Findings	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Still in normal condition	
	Findings	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Still in normal condition	
	Findings	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Still in normal condition	
	Findings	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Still in normal condition	
	Findings	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Still in normal condition	




DAGON	PIPING INSPECTION PICTURE LOG		Report/ Project	Sheet
	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		2112012	PL 7/7
	Findings	TRL 002 G-Base 91 Tank Receiving line (Under road)	Still in normal condition	
	Findings	TRL 002 G-Base 91 Tank Receiving line (Under road)	Still in normal condition	
	Findings	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Still in normal condition	
	Findings	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Still in normal condition	
	Findings	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Slight corrosion on pipe. (15)	
	Findings	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Still in normal condition	

[illegible]







DAICON		PIPING INSPECTION SUMMARY REPORT			Report / Project 2112012	Sheet 5 / 1																							
STT-CC-003-01-01 (TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8))				Date of inspections: 23 December 2021																									
Piping data																													
Line ID :	TRL 003 Diesel Tank Receiving Line			Jetty to Tank No.6,8																									
Product :	G-Base 95				6 inch, Sch. STD.																								
Material :	API 5L GR.B				Insulation : N/A																								
Design and calculations																													
Design Pressure P :	285 psi	(Max. Operating Pressure)	Tmin (assumed) :	0.84 mm																									
Diameter D :	5 inch.		Tmax (Table 6.4P55+J) :	3.3 mm.	T struct. : 2.8 mm.																								
Stress S (Table A1) :	20.0 ksi	Tmin = PD	T minimum measured :	5.26 mm																									
Q factor E (Table A1A or B1B) :	1	2(SE+PY)	Service life (from last reading) :	1992 / 24 years																									
Coefficient Y (Table D04.1.1) :	0.4		Corrosion Rate :	0.054 mm./year																									
The estimated remaining life for this line is: 71.72 years																													
UT settings																													
Procedure :	P-INT12 rev. 01			Ambient																									
Equipment type, S/N :	Olympus 38DL plus, S/N 130686407			Probe type, S/N :																									
Cal block, S/N :	SN 0471			Calibration step : Low																									
LRT summary																													
Approximate length :	-	Nr. of tool locations :	-																										
Equipment type, S/N :	-	Probe collar, nr. of channels :	-																										
Nr of LRT indications :	-	Category 1 :	-	N/A	Category 2 :	N/A																							
		Category 3 :	-	N/A																									
Pipe inspection summary																													
Visual Inspection (VT)																													
1. Sealing sleeve underground pipe was found degradation, damage and corrosion under sleeve underground pipe. Approximate corrosion depth 1.5 mm. (as mark)																													
2. Sealing sleeve underground pipe was found degradation, damage and corrosion under sleeve underground pipe. Approximate corrosion depth 1 mm. (as mark)																													
Ultrasonic Thickness Measurement (UTM)																													
- UTM : The actual minimum thickness found as 5.26 mm.																													
- Maximum Corrosion rate: 0.054 mm/yr																													
- Minimum Remaining Life: 71.72 yrs																													
Recommendations																													
Visual Inspection (VT)																													
- Carry out alternative NDE (CUS) to determine condition within 2 months, Then re-painting as per original design to prevention future corrosion.																													
Ultrasonic Thickness Measurement (UTM)																													
- Thickness monitoring should be performed at next 10 yrs interval.																													
<table border="1"> <thead> <tr> <th colspan="2">API Inspector</th> <th colspan="2">LRT Technician</th> <th colspan="2">UT Technician</th> <th>Chevron</th> </tr> <tr> <th>Name</th> <th>Supra In P.</th> <th>Name</th> <th>Date:</th> <th>Name</th> <th>Toednat T.</th> <th>Name</th> <th>Terranal P.</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>							API Inspector		LRT Technician		UT Technician		Chevron	Name	Supra In P.	Name	Date:	Name	Toednat T.	Name	Terranal P.								
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DAICON		PIPING VISUAL INSPECTION LOG		Report/ Project	Sheet																																																																		
				2112012	VT 8/8																																																																		
STT-CC-003-01-01 (TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6.8))																																																																							
Degradation	V/A	Normal	Minor	Moderate	Severe																																																																		
Corrosion	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																		
CUS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																		
Paint	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																		
Insulation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																		
Supports	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																		
Vibration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																		
Misalignment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																		
Mech. Damage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																		
Leak	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																		
Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																		
Severity to be determined as follows:																																																																							
Minor:		For findings that don't require action																																																																					
Moderate:		For findings that require action (specify time)																																																																					
Severe:		For findings that require immediate action																																																																					
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Serial Number	Findings	Severity	Remarks	Date	Inspector																																																																		
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10	Other	Minor	Other on the pipe surface	21/12/2012	DAICON																																																																		

DAICON		PIPING INSPECTION PICTURE LOG		Report/ Project	Sheet
				2112012	PL 1/7
STT-CC-003-01-01 (TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6.8))					
Name of part / Location		Name of part / Location		Findings	
TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6.8)		TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6.8)		Still in normal condition	
Name of part / Location		Name of part / Location		Findings	
TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6.8)		TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6.8)		Still in normal condition	
Name of part / Location		Name of part / Location		Findings	
TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6.8)		TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6.8)		Still in normal condition	
Name of part / Location		Name of part / Location		Findings	
TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6.8)		TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6.8)		Still in normal condition	




DAICON	PIPING INSPECTION PICTURE LOG		Report/Project	Sheet
	STT-CC-003-01-01 (TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8))		2112012	PL 2/7
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition

DAICON	PIPING INSPECTION PICTURE LOG		Report/Project	Sheet
	STT-CC-003-01-01 (TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8))		2112012	PL 3/7
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition

PIPING INSPECTION PICTURE LOG			Report/Project	Sheet
STT-CC-003-01-01 (TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8))			2112012	PL 4/7
				
Name of part / Location	Findings	Name of part / Location	Findings	
TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	
				
Name of part / Location	Findings	Name of part / Location	Findings	
TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	
				
Name of part / Location	Findings	Name of part / Location	Findings	
TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	

PIPING INSPECTION PICTURE LOG			Report/Project	Sheet
STT-CC-003-01-01 (TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8))			2112012	PL 5/7
				
Name of part / Location	Findings	Name of part / Location	Findings	
TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Sealing sleeve underground pipe was found degradation, damage and corrosion under sleeve underground pipe.	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Sealing sleeve underground pipe was found degradation, damage and corrosion under sleeve underground pipe.	
				
Name of part / Location	Findings	Name of part / Location	Findings	
TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Sealing sleeve underground pipe was found degradation, damage and corrosion under sleeve underground pipe.	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Sealing sleeve underground pipe was found degradation, damage and corrosion under sleeve underground pipe.	
				
Name of part / Location	Findings	Name of part / Location	Findings	
TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	

PIPING INSPECTION PICTURE LOG			Report/Project	Sheet
			2112012	PL 6/7
STT-CC-003-01-01 (TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8))				
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition

PIPING INSPECTION PICTURE LOG			Report/Project	Sheet
			2112012	PL 7/7
STT-CC-003-01-01 (TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8))				
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition
	Name of part / Location	Findings	Name of part / Location	Findings
	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition

CML	Size	Type	Direction	Nom.(Thk)	7.11	2.80	UTM date	UTM date	UTM date	UTM date	UTM date	Short term corrosion Rate (mm)/yr	Long term corrosion Rate (mm)/yr	Short term remaining life (yr)	Long term remaining life (yr)	STT-CC-003-01-01 (Diesel)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
																1-Jan-66 (mm)	Required (mm)	15-Dec-16 (mm)	20-Dec-21 (mm)	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM 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date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date	UTM date



Report/
Project

Sheet
UTM 717

STT-CC-003-01-01 (Diesel)

CML	Size	Type	Direction	Nom.(Thk)	Min Required (mm)	UTM date	UTM date	UTM date	Short term corrosion Rate (mm)/yr	Long term corrosion Rate (mm)/yr	Short term remaining life (yr)	Long term remaining life (yr)
				1-Jan-65		15-Dec-16	20-Dec-21					
				(mm)		(mm)	(mm)	(mm)				
				0°		6.53	7.34	6.51				
34B	6"	Elbow	270°	90°	7.11	2.80	7.31	6.88	-0.006	-0.004	No Corrosion	No Corrosion
				180°			6.87	7.21	-0.002	0.004	No Corrosion	1011.23
				0°			7.27	7.21	0.012	-0.002	No Corrosion	368.71
				270°			6.44	6.39	0.010	0.013	No Corrosion	284.24
34C	6"	Elbow	180°	90°	7.11	2.80	7.04	7.01	0.006	0.002	No Corrosion	2399.93
				270°			7.31	7.33	-0.004	-0.004	No Corrosion	284.24
				0°			7.63	7.65	-0.004	-0.009	No Corrosion	170.49
				90°			5.98	6.03	-0.010	0.019	No Corrosion	2382.81
35	6"	Pipe	270°	180°	7.11	2.80	6.48	6.37	0.022	0.013	No Corrosion	162.81
				90°			7.56	7.55	0.002	-0.008	No Corrosion	275.01
				0°			6.19	6.20	-0.002	0.016	No Corrosion	212.99
				270°			6.19	6.20	-0.002	0.016	No Corrosion	212.99

เอกสารแนบที่ 21

วัสดุดูดซับสารเคมีและน้ำมัน

Chemical Only Sorbent

ตัวดูดซับสารเคมีเท่านั้น



แพคเกจครบสารเคมี
Chemical Only Sorbent Pad
Model: HOS-INT2002 & HOS-INT4002

- These chemical solvents can be used for aggressive and non-aggressive chemical such as acidic & caustic liquids.
- These chemical solvent pads are with double & perforated and made from multi-bore polypropylene film fibres, increase its tensile strength & durability as well.
- Ideal for laboratory spills and transportation hazardous material spill response.

Sp / Model	Spice / Size	Dimensions / inch/mm	Spice / Quantity	Dimensions / Absorbency	Spice / Type
1135 LM72K2	41mm x 51mm	3mm	200pcs / carton	115 Bire / carton	Single Weight (cat. 1.5 g)
1135 LM74K2	41mm x 51mm	2mm	100pcs / carton	115 Bire / carton	Double Weight (cat. 3 g)



เบ็ดดูดไขมัน
Chemical Only Sorbent Sock
Model: HOS-SOC7612 & HOS-SOC7624

- Cellulosic solvent contained with a flexible polypropylene skin for the purpose of containing & absorbing petroleum based chemicals, aggressive & non-aggressive solvents, and aqueous-based solutions, reducing the need to stock different solvent types for emergency response.

Part / Model	Term / Size	Term / Quantity	Units per / Absorbency
HOS SOC7612	27.6cm x 1.2m	12 pcs / carton	>100 litre / carton
HOS SOC7624	27.6cm x 2.4m	6 pcs / carton	>100 litre / carton



หมอนดูดซับสารเคมี
Chemical Only Sorbent Pillow
Model: HOS-PH-2025 & HOS-PH-4050

- [illegible]

Part / Model	Size	Weight / Quantity	Viscosity / Absorbency
HOS PIL2025	20cm x 25cm	32pcs / carton	>90 litre / carton
HOS PIL2050	40cm x 50cm	16pcs / carton	>144 litre / carton



มีขนาดเส้นผ่าศูนย์กลาง
Chemical Only Sorbent Folded

- [illegible]

PU Model	size / Size	Price / Quantity	(mm ² g/dm ²) / Absorbency
H05 FLE0025	2808 x 1546	1.10\$/carton	32 liter / carton

Oil Only Sorbent

ผู้เป็นเจ้าของบ้านผู้ด้อยค่า



แผ่นดูดซับน้ำมัน
Oil Only Laminate Sorbent Pad

- These laminate oil sorbent pads are with simple & easy to use. They are made from meltblown polypropylene fibers, which are fine and soft. These pads are made from 100% virgin polypropylene. These pads are made from 100% virgin polypropylene. These pads are made from 100% virgin polypropylene.
- Fast absorbing for use with oil or petroleum base fluid
- Suitable for cleaning up oil spill in ocean, river or lake.

Ty / Model	WDM / Size	PCWAVELENGTH / Thickness	Quantity	Transmittance / Absorbency	Wavelength / Type
BOCS LMT4002	41cm x 51cm	3mm	200pcs / carton	>45 litre / carton	Single Weight (kg/carton)
BOCS LMT4002	41cm x 51cm	8mm	100pcs / carton	>45 litre / carton	Double Weight (kg/carton)



ถุงดูดไขมัน
Oil Only Sorbent Sock

- These oil sorbent socks are effectively absorbed leaks from all machinery and equipment, including engine oil, hydraulic oil, gear oil, and other types of oil on uneven surface to prevent spill & drips.
- It is also a daily maintenance tools for many industries including chemical plants, heavy & light engineering, power generation, food processing, transportation, printing & etc.

TP / Model	Size	Quantity	Fluorescence / Absorbency
ROS-SOC7612	Ø7.6cm x 1.2m	12pcs / carton	>100 litre / carton
ROS-SOC7624	Ø7.6cm x 2.4m	6pcs / carton	>100 litre / carton



หมอนดูดซับน้ำมัน
Oil Only Sorbent Pillow
Model: POS-PH 2025 8-POS-PH 14050

- Sorbent pillow meet variety of clean-up and safety needs. Oil sorbent pillows are useful for absorbing oil in confined areas such as sumps, fluid reservoir, bilges and tanks.
- These oil sorbent pillows are excellent for absorbing oil spills and leaking fluids in tight spaces.

pu / Model	form / Size	unit / Quantity	offtake rate / Absorbency
BOS-PIL2025	20cm x 25m	32pcs / cartons	>90 litre / carton
BOS-PIL4050	40cm x 50m	16pcs / cartons	>144 litre / carton



ผ้าดูดซับน้ำมัน
Oil Only Sorbent Folded

- [illegible]

T _g / Model	wt% / Size	Form / Quantity	Wavelength / Absorbance	W / W ₀ / W ₀ / W ₀
1000 / 1000	1000 / 1000	1000 / 1000	1000 / 1000	1000 / 1000

SPILL CONTROL

Universal Sorbent

626

เอกสารแนบที่ 22

รายงานจำนวนรถบรรทุกที่เข้าโหลดน้ำมัน

รายงานจำนวนรอบรถทุกเข้าโหลดน้ำมันประจำเดือน กรกฎาคม 2023

วันที่	สถานีบริการ CTL	ลูกค้าอื่นๆ CTL	โหลดบน CTL	รวม CTL	สถานีบริการ BCP	ลูกค้าอื่นๆ BCP	โหลดบน BCP	รวม BCP	รวมทั้งหมด CTL+BCP
1	17	5	1	23	54	0	12	66	89
2	0	0	0	0	18	0	1	19	19
3	25	16	10	51	65	0	10	75	126
4	9	2	4	15	32	0	17	49	64
5	11	6	9	26	32	0	15	47	73
6	16	14	6	36	35	0	12	47	83
7	21	2	4	27	45	0	12	57	84
8	22	19	7	48	48	2	15	65	113
9	0	0	0	0	23	0	3	26	26
10	21	18	14	53	53	0	4	57	110
11	13	10	3	26	35	0	10	45	71
12	24	2	7	33	51	0	14	65	98
13	16	9	7	32	37	2	18	57	89
14	17	2	7	26	45	1	7	53	79
15	16	1	7	24	46	1	10	57	81
16	0	0	0	0	22	0	7	29	29
17	16	16	38	70	34	0	8	42	112
18	11	4	8	23	35	0	9	44	67
19	16	4	8	28	56	1	10	67	95
20	15	2	6	23	32	0	8	40	63
21	25	15	8	48	44	1	15	60	108
22	16	6	4	26	54	0	13	67	93
23				0				0	0
24	22	5	9	36	46	0	1	47	83
25	17	6	8	31	40	4	11	55	86
26	13	3	7	23	48	0	10	58	81
27	18	4	22	44	51	0	18	69	113
28				0				0	0
29	25	18	14	57	63	0	17	80	137
30	0	0	0	0	17	0	8	25	25
31	38	10	3	51	59	0	15	74	125
รวมทั้งเดือน				880				1542	2422

รายงานจำนวนรถบรรทุกเข้าโหลدنํ้ามันประจำเดือน สิงหาคม 2023

วันที่	สถานีบริการ CTL	ลูกค้าอื่นๆ CTL	โหลดบน CTL	รวม CTL	สถานีบริการ BCP	ลูกค้าอื่นๆ BCP	โหลดบน BCP	รวม BCP	รวมทั้งหมด CTL+BCP
1				0				0	0
2	31	25	4	60	67	0	15	82	142
3	8	3	5	16	33	16	21	70	86
4	12	4	4	20	36	3	49	88	108
5	22	12	6	40	51	0	15	66	106
6	0	0	0	0	12	0	2	14	14
7	17	3	9	29	48	0	10	58	87
8	21	6	6	33	37	11	24	72	105
9	8	19	7	34	37	24	26	87	121
10	33	15	7	55	60	1	18	79	134
11	22	2	5	29	45	0	8	53	82
12	10	17	10	37	48	8	21	77	114
13	0	0	0	0	20	0	3	23	23
14	14	14	2	30	42	8	22	72	102
15	16	11	5	32	41	3	18	62	94
16	18	13	7	38	37	5	21	63	101
17	11	3	5	19	37	0	17	54	73
18	16	21	8	45	40	8	19	67	112
19	28	5	2	35	51	1	17	69	104
20				0	20	0	4	24	24
21	20	2	6	28	53	0	18	71	99
22	13	21	4	38	46	13	44	103	141
23	17	14	4	35	45	0	13	58	93
24	15	5	4	24	53	0	13	66	90
25	17	2	6	25	40	0	13	53	78
26	22	14	9	45	57	1	25	83	128
27	0	0	0	0	27	0	4	31	31
28	31	14	14	59	58	0	11	69	128
29	10	7	13	30	39	0	12	51	81
30	27	18	5	50	41	11	21	73	123
31	17	12	20	49	47	0	15	62	111
รวมทั้งเดือน				935				1900	2835

รายงานจำนวนรถบรรทุกเข้าโหลدن้ำมันประจำวัน กันยายน 2023

วันที่	สถานีบริการ CTL	ลูกค้าอื่นๆ CTL	โหลดบน CTL	รวม CTL	สถานีบริการ BCP	ลูกค้าอื่นๆ BCP	โหลดบน BCP	รวม BCP	รวมทั้งหมด CTL+BCP
1	14	14	5	33	30	3	20	53	86
2	20	12	5	37	48	2	24	74	111
3	0	0	0	0	24	0	2	26	26
4	19	19	4	42	44	5	44	93	135
5	19	19	4	42	50	0	9	59	101
6	14	1	2	17	28	0	12	40	57
7	14	8	5	27	41	2	9	52	79
8	18	3	7	28	37	1	21	59	87
9	17	3	2	22	42	1	20	63	85
10	0	0	0	0	23	0	5	28	28
11	17	7	6	30	39	0	8	47	77
12	12	19	4	35	46	0	14	60	95
13	33	10	4	47	50	4	24	78	125
14	15	1	10	26	49	4	14	67	93
15	18	0	15	33	34	3	22	59	92
16	18	0	9	27	34	1	26	61	88
17				0				0	0
18	24	0	0	24	61	8	8	77	101
19	3	0	0	3	18	1	6	25	28
20	18	0	9	27	43	21	77	141	168
21	16	0	6	22	43	13	26	82	104
22	16	1	0	17	39	6	12	57	74
23	25	0	8	33	59	4	21	84	117
24	0	0	0	0	21	0	2	23	23
25	14	0	2	16	44	0	16	60	76
26	14	2	15	31	34	3	14	51	82
27	15	13	62	90	39	0	11	50	140
28	16	7	6	29	46	0	9	55	84
29	21	0	9	30	55	1	13	69	99
30	15	1	18	34	52	0	12	64	98
31				0				0	0
รวมทั้งเดือน				802				1757	2559

รายงานจำนวนรอบรถทุกเข้าโหลดน้ำมันประจำเดือน ตุลาคม 2023

วันที่	สถานีบริการ CTL	ลูกค้าอื่นๆ CTL	โหลดบน CTL	รวม CTL	สถานีบริการ BCP	ลูกค้าอื่นๆ BCP	โหลดบน BCP	รวม BCP	รวมทั้งหมด CTL+BCP
1	0	0	0	0	22	0	4	26	26
2	14	3	6	23	38	0	16	54	77
3	11	1	48	60	48	0	9	57	117
4	20	0	6	26	34	0	16	50	76
5	11	2	6	19	35	6	11	52	71
6	18	0	6	24	39	4	27	70	94
7	23	1	5	29	56	2	39	97	126
8	0	0	0	0	27	0	2	29	29
9	16	0	8	24	45	9	72	126	150
10	26	2	15	43	59	0	4	63	106
11	19	1	4	24	43	1	14	58	82
12	19	0	9	28	65	0	26	91	119
13	0	0	0	0	0	0	0	0	0
14	21	0	4	25	54	0	15	69	94
15	0	0	0	0	31	0	3	34	34
16	17	8	18	43	56	0	28	84	127
17	13	1	2	16	37	0	17	54	70
18	16	2	5	23	40	0	14	54	77
19	20	0	17	37	52	0	10	62	99
20	21	1	35	57	45	0	13	58	115
21	11	3	5	19	45	0	18	63	82
22	0	0	0	0	24	0	3	27	27
23	3	18	18	39	38	0	13	51	90
24	19	20	21	60	41	0	34	75	135
25	14	1	14	29	44	0	14	58	87
26	14	0	3	17	39	0	23	62	79
27	17	0	3	20	45	1	12	58	78
28	22	0	5	27	52	0	12	64	91
29	0	0	0	0	26	0	1	27	27
30	24	0	5	29	56	0	17	73	102
31	12	0	0	12	41	0	45	86	98
รวมทั้งเดือน				753				1832	2585

รายงานจำนวนรถบรรทุกเข้าโหล่น้ำมันประจำวัน พฤศจิกายน 2563

วันที่	สถานีบริการ CTL	ลูกค้าอื่นๆ CTL	โหล่นบน CTL	รวม CTL	สถานีบริการ BCP	ลูกค้าอื่นๆ BCP	โหล่นบน BCP	รวม BCP	รวมทั้งหมด CTL+BCP
1	13	0	17	30	42	1	11	54	84
2	14	1	8	23	33	0	15	48	71
3	15	8	9	32	36	2	20	58	90
4	23	0	10	33	39	0	23	62	95
5	0	0	0	0	20	0	7	27	27
6	5	0	13	18	24	0	23	47	65
7	29	6	13	48	54	7	18	79	127
8	12	7	3	22	40	4	43	87	109
9	15	16	8	39	45	3	19	67	106
10	18	11	23	52	40	10	41	91	143
11	37	13	8	58	51	0	27	78	136
12	0	0	0	0	32	0	4	36	36
13	26	0	7	33	48	0	37	85	118
14	27	6	20	53	42	0	14	56	109
15	11	3	1	15	41	0	9	50	65
16	20	5	7	32	38	6	27	71	103
17	13	14	11	38	41	0	14	55	93
18	24	19	4	47	44	7	38	89	136
19	0	0	0	0	26	0	3	29	29
20	22	2	8	32	36	5	74	115	147
21	18	0	5	23	46	0	7	53	76
22	16	0	10	26	47	0	11	58	84
23	21	7	10	38	44	0	11	55	93
24	18	20	4	42	47	14	23	84	126
25	25	9	6	40	72	1	14	87	127
26				0				0	0
27	35	19	12	66	46	2	22	70	136
28	15	0	29	44	35	2	24	61	105
29	35	16	9	60	49	0	21	70	130
30	14	9	10	33	46	0	8	54	87
31				0				0	0
รวมทั้งเดือน				977				1876	2853

รายงานจำนวนรถบรรทุกเข้าโหลดน้ำมันประจำเดือน ธันวาคม 2563

วันที่	สถานีบริการ SFL	ลูกค้าอื่นๆ SFL	โหลดบน SFL	รวม SFL	สถานีบริการ BCP	ลูกค้าอื่นๆ BCP	โหลดบน BCP	รวม BCP	รวมทั้งหมด SFL+BCP
1	17	6	15	38	41	0	4	45	83
2	33	10	2	45	50	17	19	86	131
3				0	19	0	5	24	24
4	36	3	2	41	65	0	19	84	125
5				0				0	0
6	19	7	4	30	46	8	19	73	103
7	17	1	5	23	40	0	10	50	73
8	18	17	9	44	32	0	12	44	88
9	28	1	3	32	66	0	13	79	111
10	0	0	0	0	24	0	4	28	28
11	18	11	4	33	38	0	18	56	89
12	16	2	2	20	42	0	7	49	69
13	1	2	6	9	42	1	8	51	60
14	15	14	4	33	31	24	27	82	115
15	25	10	7	42	43	0	10	53	95
16	26	18	14	58	54	0	14	68	126
17				0	25	0	5	30	30
18	24	24	10	58	51	0	18	69	127
19	14	28	9	51	32	0	20	52	103
20	19	2	3	24	39	1	9	49	73
21	20	0	4	24	56	0	22	78	102
22	13	23	10	46	36	0	14	50	96
23	19	17	6	42	39	0	22	61	103
24				0	24	0	4	28	28
25	19	15	6	40	50	2	22	74	114
26	16	13	4	33	41	3	19	63	96
27	18	22	7	47	39	10	27	76	123
28	19	6	0	25	49	0	11	60	85
29	21	14	7	42	58	2	15	75	117
30	26	4	6	36	49	1	14	64	100
31				0	26	0	5	31	31
รวมทั้งเดือน				916				1732	2648