

C U S T O M E R
Code : 14031
Name :
Address : Production Co., Ltd.
SongKhla: 39/15 Soi 29, Moo 10, Karnjanavanish Rd.,
Tambon Khaorooopchang, Amphur Muang, SongKhla 9000
Site :
Location :
Test code : 804

E Q U I P M E N T
Unit ID : KR 1201 A Comp
Unit Type : Compressor Nat Gas
Unit Make : ARIEL
Unit Model : JGC 6
Oil type / Viscosity : SHELL MYSELLA SAE40
Oil System Capacity : 1000 Liters

Overall Condition Rating

Notes (Finding, Evaluation, Interpretation, Suggestion and Recommendation)

All other wear tests and oil condition tests appear satisfactory, and the oil was still serviceable at the time of sampling.
All contaminant conditions and contaminant levels appear in normal ranges.
Continue routine sampling interval.

Somchai J / Andy Siltou

		Current Sample			Previous Sample		Baseline and Alarm Limit					
Condition History		Wear	Oil	Cont.			Alarm Limit					
							Alarm Limit Matrix -Set Name (Equipment type / oil type)					
							Comp Nat Gas Ariel General Shell Mysella 40					
Wear Condition		Reference Oil (RO)	RDE fine		RFS coarse							
Wear Element	Method	Unit	RDE fine	RFS coarse			U-Caution	U-Warning	U-Caution	U-Warning		
Iron	D-6595	PPM	2.6	4.1	C		0	>3	>4	>4	>6	
Chromium	D-6595	PPM	0.3	0.0			0	>1	>2	>1	>2	
Lead	D-6595	PPM	1.3	0.1			0	>2	>3	>5	>8	
Copper	D-6595	PPM	6.9	5.0	C		0	>10	>18	>4	>8	
Tin	D-6595	PPM	0.0	9.6	W		0	>10	>12	>5	>6	
Aluminum	D-6595	PPM	0.9	0.1			0	>2	>3	>2	>3	
Nickel	D-6595	PPM	0.0	0.0			0	>1	>2	>1	>2	
Silver	D-6595	PPM	0.1	0.0			0					
Molybdenum	D-6595	PPM	0.0	0.0			0					
Titanium	D-6595	PPM	0.0	0.6			0					
Oil Condition		RO	L-Warning	L-Caution	U-Caution	U-Warning						
Viscosity @ 40° C	D-445	cSt					13.5	<12.2	<12.8	>14.2	>14.9	
Viscosity @ 100° C	D-445	cSt	14.2				7.9		>11.9	>15.8		
Oxidation	FTIR	Abs	7.4				2.9		>5.1	>6.2		
Nitration	FTIR	Abs	5.4	C			0.32		>1.32	>2.32		
TAN	D-974	mg KOH/g.	0.59									
TBN	D-4739	mg KOH/g.										
Contamination		RO	U-Caution		U-Warning							
Water	FTIR	% (Wt.)	0.035				0.010		>0.05	>0.08		
Fuel	SAW	% (Wt.)	0.00									
Glycol	FTIR	Abs	0									
Soot	FTIR	% (Wt.)	0.00									
		RDE fine		RFS coarse								
Sodium	D-6595	PPM	6				4	>25	>50			
Silicon	D-6595	PPM	1.3	1.8			0	>13	>15	>6	>11	
Additive Element		RO	U-Caution		U-Warning							
Boron	D-6595	PPM	0				1	>25	>50			
Magnesium	D-6595	PPM	4				5					
Calcium	D-6595	PPM	1259				1082					
Barium	D-6595	PPM	0				0					
Phosphorus	D-6595	PPM	226				225					
Zinc	D-6595	PPM	312	20			269					
Additional Test		RO	L-Warning	L-Caution	U-Caution	U-Warning						
Flash Point	D-3828	°C										
Viscosity Index	D-2270											

Note: Alarm Limits are variable and dependent upon dataset size and to be used as general guideline.
 No Sign or : NORMAL , C or : CAUTION (first level warning limit) , W or : Warning (second level warning limit)
 U-Caution : Upper CAUTION Level L-Caution : Lower CAUTION Level First Level Alarm Alert Limit in Upper Level and/or Lower Level
 U-Warning : Upper WARNING Level L-Warning : Lower WARNING required Level Second Level Alarm Alert Limit in Upper Level and/or Lower Level
 Baseline will be data of either "The new oil" or "Reference oil" or "Oil specification". TNO = The new oil , RO = Reference oil , OS = Oil Specification
 Accuracy of interpretation and recommendation are based on representatives sample and information supplied. No warranty is expressed or implied for this report.