

Customer Code : 8888

Unit ID Number : U99B0606 Comp A No 2

Customer Name : ABC Manufacturing Co.,Ltd

Unit Type : Compressor Refrigeration

Address : 123 Sukhumvit Road , Map Ta Phut
Rayong 21150

Unit Make : TRANE

Unit Model : RTWA

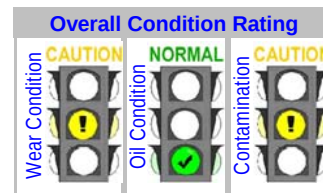
Test code : 804

Oil type / Viscosity : TRANE 15

Site Name :

Lube System Capacity :

Location :



Recommendations and Notes

Minor amount of dirt and abrasive wear noted.

Recommend check to determine how dirt is entering the system and correct the problem to prevent further dirt entry.

All other wear tests and oil condition tests appear satisfactory, and the oil was still serviceable at the time of sampling.

* Please submit sample of this type of new oil, on next sampling. This will assist in developing Alarm Limits Range for this equipment and oil combination.

WC / Andy Sitton

			Current Sample			Previous Sample			Alarm Limit Range	
Condition History			Wear	Oil	Cont.	Wear	Oil	Cont.	Limit Name (Equipment / Oil) :	
									Comp Refrig General Oil	
									Type Not on File	
FocusLab ID	Test Method	Result	66814			40072				
Date sampled			16-Nov-06			01-Mar-05				
Hours on Oil			Not Given			1626				
Hours on Unit			50265			37846				
Bottle ID			855961			829207				
Wear Condition			RDE fine		RFS coarse	RDE fine		RFS coarse	RDE fine	
Wear Element	Method	Unit	RDE fine	RFS coarse		RDE fine	RFS coarse		RDE fine	RFS coarse
Iron	D-6595	PPM	0.3	11.9	C	0.7	7.8		0.0	0.0
Chromium	D-6595	PPM	0.0	0.3		0.4	0.0		0.0	0.0
Lead	D-6595	PPM	0.6	1.1		1.6	0.0		0.0	0.0
Copper	D-6595	PPM	0.7	16.6		0.9	5.7	C	0.0	0.0
Tin	D-6595	PPM	0.0	11.7	A	1.3	24.9	A	0.0	0.0
Aluminum	D-6595	PPM	0.0	0.0		0.3	0.0		0.0	0.0
Nickel	D-6595	PPM	0.0	1.0		0.3	0.0		0.0	0.0
Silver	D-6595	PPM	0.0	0.0		0.1	0.0		0.0	0.0
Molybdenum	D-6595	PPM	0.6	0.0		0.5	0.0		0.0	0.0
Titanium	D-6595	PPM	0.0	0.2		0.0	0.0		0.0	0.0
Oil Condition			RDE fine		RFS coarse	RDE fine		RFS coarse	RDE fine	
Viscosity @40°C	D-445	cSt	52.7	*		48.2			56.7	
Viscosity @100°C	D-445	cSt							6.8	
Oxidation	FTIR	Abs	5.0	*		5.3			4.0	
Nitration	FTIR	Abs	4.7	*		4.5			4.0	
TAN	D-974	mg KOH/g.	0.03			0.04			0.01	
TBN	D-4739	mg KOH/g.								
Contamination			RDE fine		RFS coarse	RDE fine		RFS coarse	RDE fine	
Water	T-H2O Check™	% (Wt.)	0.011			0.014			0.001	
Sodium	D-6595	PPM	0			0			0	
Silicon	D-6595	PPM	8.0	C	10.4	C	21.3	A	13.0	C
Additive Element			RDE fine		RFS coarse	RDE fine		RFS coarse	RDE fine	
Boron	D-6595	PPM	0			0			0	
Magnesium	D-6595	PPM	0			0			0	
Calcium	D-6595	PPM	0			0			0	
Barium	D-6595	PPM	0			0			0	
Phosphorus	D-6595	PPM	8			11			0	
Zinc	D-6595	PPM	1		9	1		6	0	0
Additional Test			RDE fine		RFS coarse	RDE fine		RFS coarse	RDE fine	
Flash Point	Seta Flash	°C								
Viscosity Index	D-2270								60	
Other			RDE fine		RFS coarse	RDE fine		RFS coarse	RDE fine	

Note: Alarm Limits are variable and dependent upon dataset size and to be used as general guideline.

No Sign or : NORMAL , or : CAUTION (first level warning limit) , or : ACTION required (second level warning limit)

U-Caution : Upper CAUTION Level L-Caution : Lower CAUTION Level

U-Action : Upper ACTION required Level L-Action : Lower ACTION required Level

Accuracy of interpretation and recommendation are based on representatives sample and information supplied.

First level warning limit in Upper level and/or Lower level

Second level warning limit in Upper level and/or Lower level

No warranty is expressed or implied for this report.

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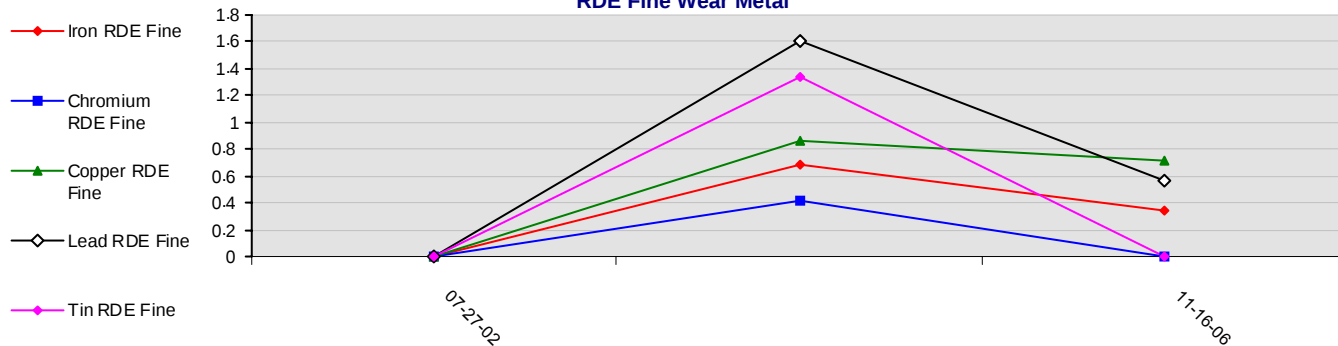
Site Name :

Location :

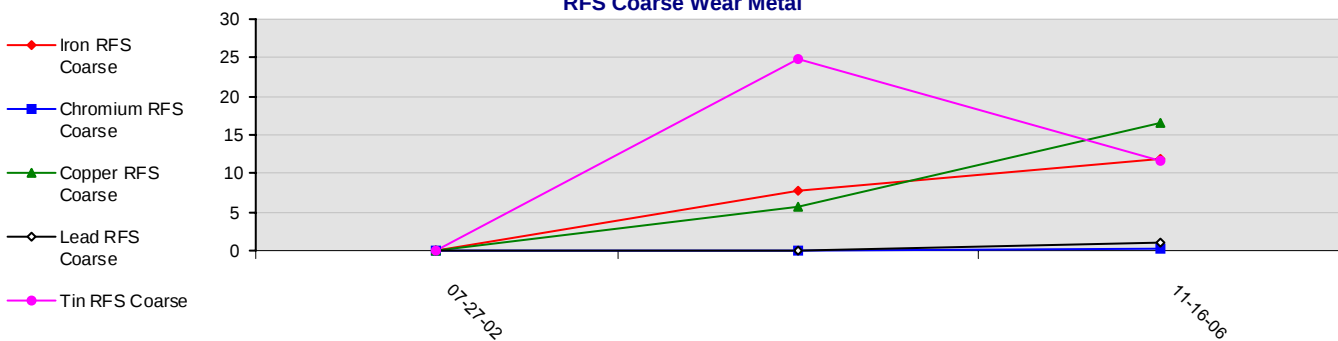
Lube System Capacity :

Wear Condition

RDE Fine Wear Metal

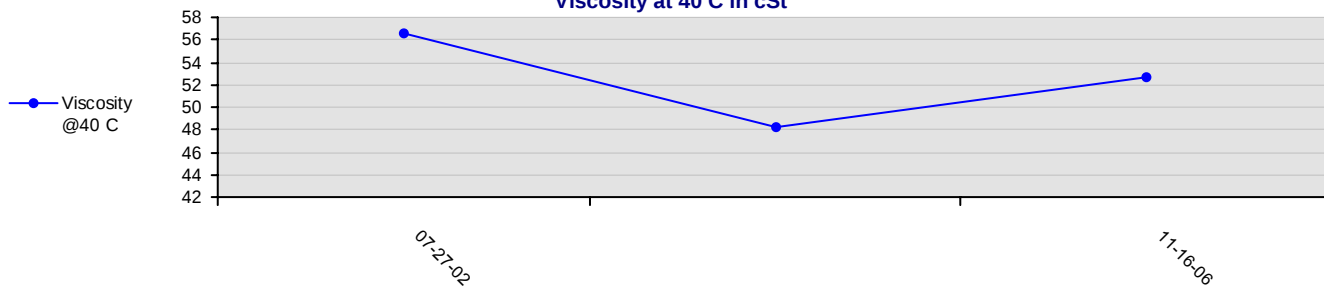


RFS Coarse Wear Metal

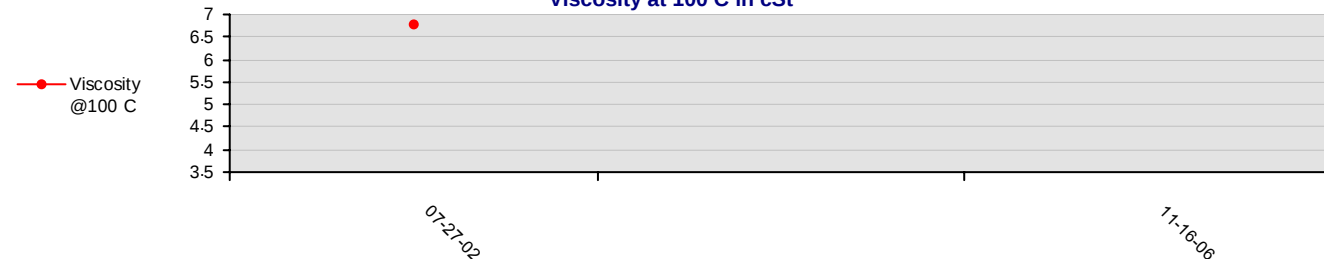


Oil Condition

Viscosity at 40 C in cSt



Viscosity at 100 C in cSt



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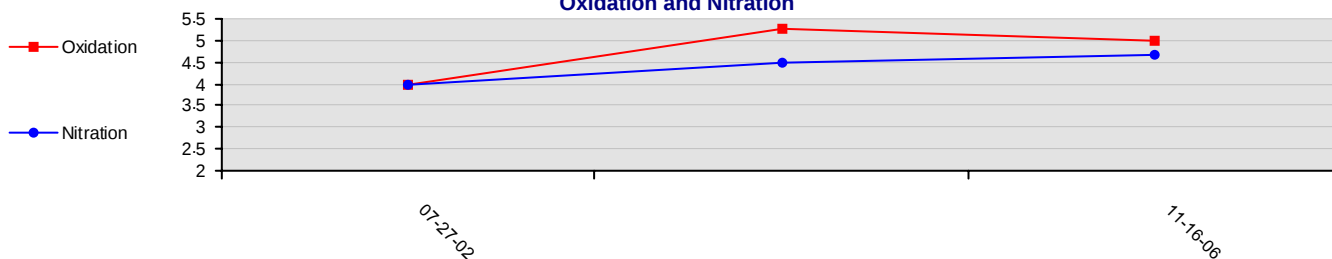
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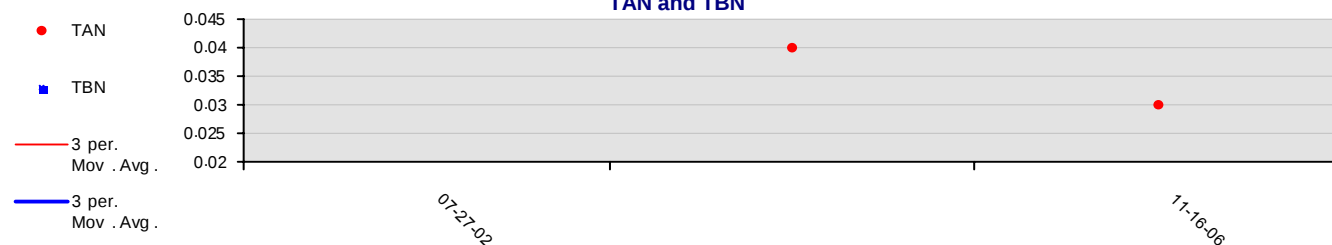
Lube System Capacity :

Oil Condition

Oxidation and Nitration

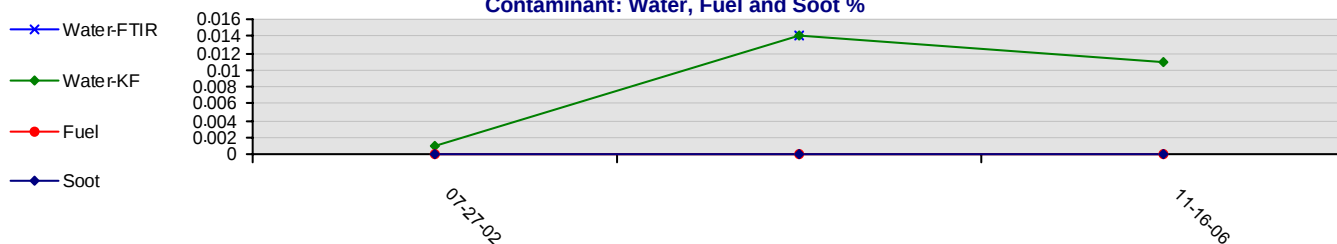


TAN and TBN

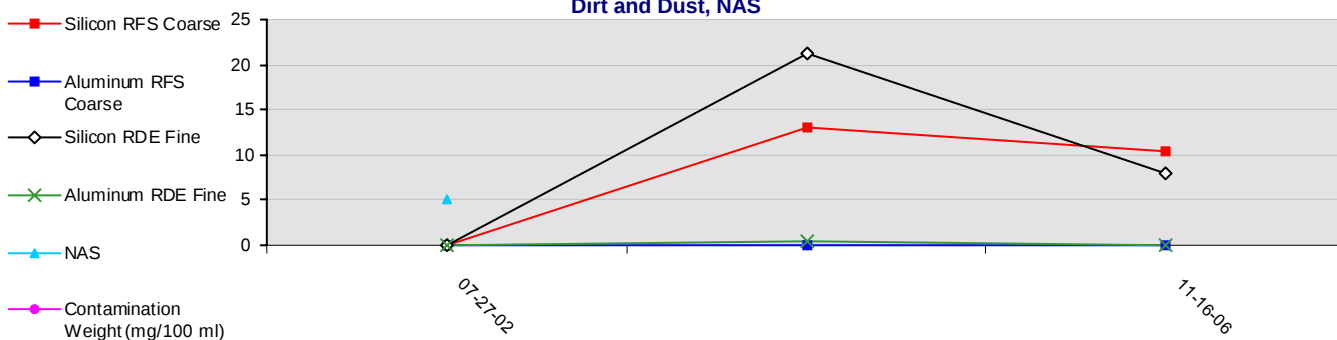


Contamination

Contaminant: Water, Fuel and Soot %



Dirt and Dust, NAS



Others

VPI and AO Additives

