

Customer Code : **8888**
 Customer Name : **ABC Manufacturing Co.,Ltd**
 Address : 123 Sukhumvit Road , Map Ta Phut Rayong 21150

Unit ID Number : **9160275 1 Engine Gas**

Unit Type : Engine Bio Gas
 Unit Make : DEUTZ
 Unit Model : TCG2015V08
 Oil type / Viscosity : MOBIL PEGASUS 705
 Site Name :
 Location :

Overall Condition Rating

Wear Condition	CAUTION 	CAUTION 	CAUTION
Oil Condition	CAUTION 	CAUTION 	CAUTION
Contamination	CAUTION 	CAUTION 	CAUTION

Test code : 804
 Lube System Capacity : 70 Liters

Recommendations and Notes

Note abnormal copper detected.
 Note viscosity is higher than normal limits.
 Recommend short sampling intervals of this sample point to monitor the abnormal conditions.

WC / Andy Sitton

Condition History			Current Sample			Previous Sample			Alarm Limit Range						
			Wear	Oil	Cont.	Wear	Oil	Cont.	Wear	Oil	Cont.	Limit Name (Equipment / Oil) :			
FocusLab ID Date sampled Hours on Oil Hours on Unit Bottle ID											Engine Gas Deutz 15 Pegasus 705 SAE 40				
			66456	63500	61228										
			30-Oct-06	12-Sep-06	17-Jul-06										
			1070	1075	800										
			3990	2920	1845										
			850282	850281	850165										
Wear Condition															
Wear Element	Method	Unit	RDE fine	RFS coarse	RDE fine	RFS coarse	RDE fine	RFS coarse	New Oil	R-Action	L-Action	U-Action	R-Action	U-Action	
Iron	D-6595	PPM	3.0	2.2	2.9	6.9	2.7	2.3	0	>15	>30	>15	>30		
Chromium	D-6595	PPM	0.3	0.5	0.2	1.0	0.3	0.2	0	>5	>10	>5	>10		
Lead	D-6595	PPM	0.0	1.6	0.0	4.9	0.5	0.5	0	>10	>20	>10	>20		
Copper	D-6595	PPM	48.3 A	45.1 A	57.8 A	46.4 A	30.4 A	14.9 C	0	>10	>20	>10	>20		
Tin	D-6595	PPM	0.0	3.5	0.0	0.7	0.0	0.0	0	>5	>10	>5	>10		
Aluminum	D-6595	PPM	1.9	9.4	2.3	10.5 C	2.1	0.0	0	>10	>20	>10	>20		
Nickel	D-6595	PPM	0.2	0.0	0.0	0.0	0.2	0.0	0	>1	>2	>2	>3		
Silver	D-6595	PPM	0.0	0.0	0.0	0.1	0.0	0.2							
Molybdenum	D-6595	PPM	0.1	0.0	0.0	2.4	0.0	0.0							
Titanium	D-6595	PPM	0.0	0.0	0.0	0.0	0.0	0.0							
Oil Condition															
Viscosity @ 40 °C	D-445	cSt							New Oil	L-Action	L-Caution	U-Caution	U-Action		
Viscosity @ 100 °C	D-445	cSt	14.7 C		14.7 C		14.5 C	13.5	<12.15	<12.83	>14.18	>14.85			
Oxidation	FTIR	Abs	20.4 A		21.3 A		20.2 A				>10	>20			
Nitration	FTIR	Abs	7.6		7.7		7.5				>10	>20			
TAN	D-974	mg KOH/g.	2.12		1.93		1.96	0.77			>2.88	>4.8			
TBN	D-4739	mg KOH/g.					X	4.8	<2	<2.88					
Contamination															
Water	FTIR	% (Wt.)	0.093 C		0.064		0.108 C		New Oil			U-Caution	U-Action		
Fuel	FTIR	% (Wt.)	0.00		0.00		0.00		0.015			>0.07	>0.2		
Glycol	FTIR	Abs	0		0		0								
Soot	FTIR	% (Wt.)	0.00		0.00		0.00								
Sodium	D-6595	PPM	1		1		1	1							
Silicon	D-6595	PPM	1.8	1.4	1.8	3.2	2.3	1.8	5	>8	>15	>8	>15		
Additive Element															
Boron	D-6595	PPM	0		0		0		New Oil						
Magnesium	D-6595	PPM	8		8		7		0						
Calcium	D-6595	PPM	1214		1226		1196		6						
Barium	D-6595	PPM	0		0		0		1020						
Phosphorus	D-6595	PPM	207		193		215		0						
Zinc	D-6595	PPM	339	119	361	210	327	72	262						
									327						
Additional Test															
Flash Point	Seta Flash	°C							New Oil	L-Action	L-Caution	U-Caution	U-Action		
Viscosity Index	D-2270														
Other															

Note: Alarm Limits are variable and dependent upon dataset size and to be used as general guideline.
 No Sign or **N** : NORMAL , **C** or : CAUTION (first level warning limit) , **A** or : ACTION required (second level warning limit)
U-Caution : Upper CAUTION Level **L-Caution** : Lower CAUTION Level First level warning limit in Upper level and/or Lower level
U-Action : Upper ACTION required Level **L-Action** : Lower ACTION required Level Second level warning limit in Upper level and/or Lower level
 Accuracy of interpretation and recommendation are based on representatives sample and information supplied. No warranty is expressed or implied for this report.

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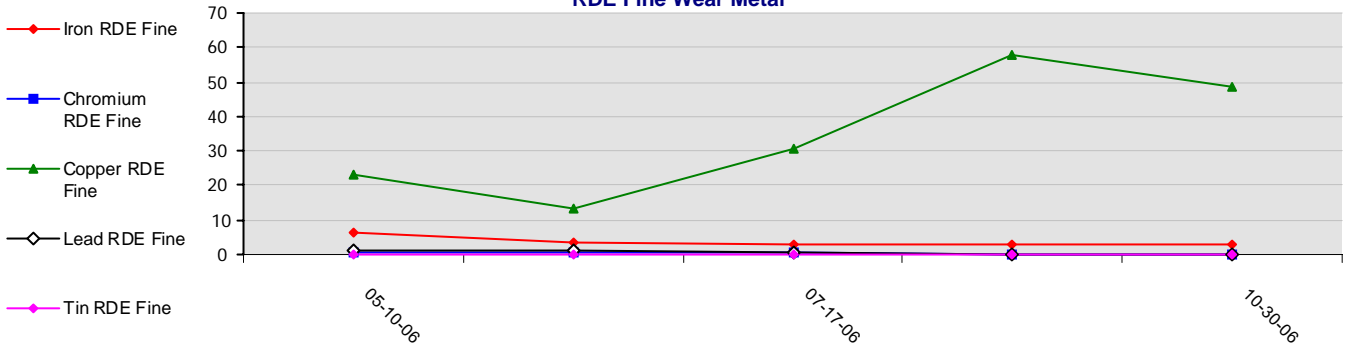
Unit Type : Engine Bio Gas
 Unit Make : DEUTZ
 Unit Model : TCG2015V08
 Oil type / Viscosity : MOBIL PEGASUS 705

Site Name :
 Location :

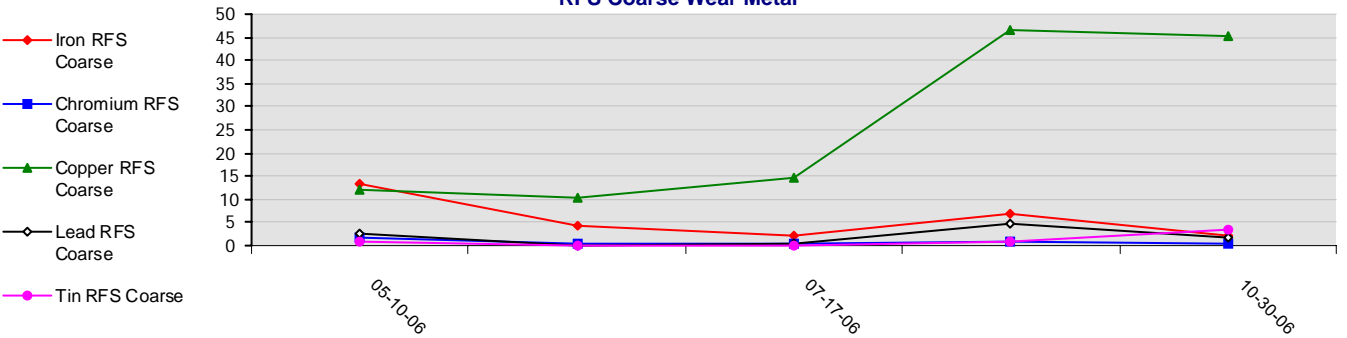
Lube System Capacity : 70 Liters

Wear Condition

RDE Fine Wear Metal

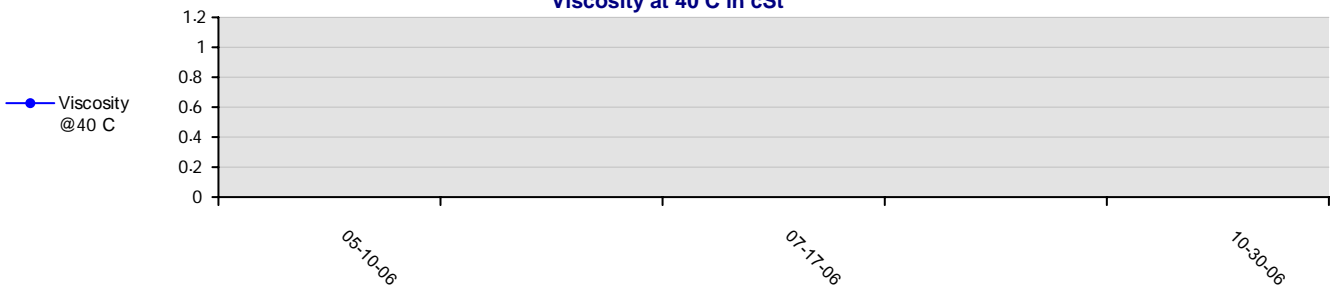


RFS Coarse Wear Metal

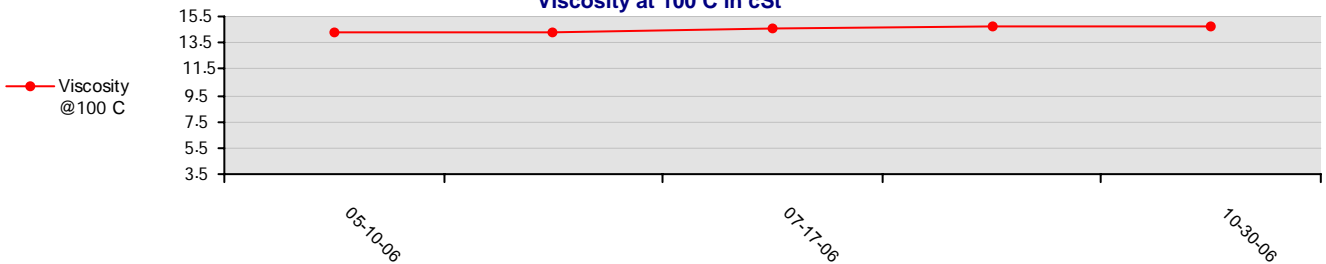


Oil Condition

Viscosity at 40 C in cSt



Viscosity at 100 C in cSt



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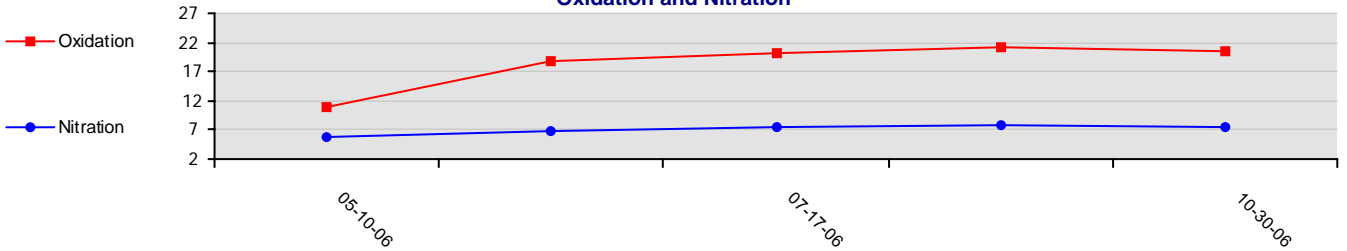
Site Name :

Lube System Capacity : 70 Liters

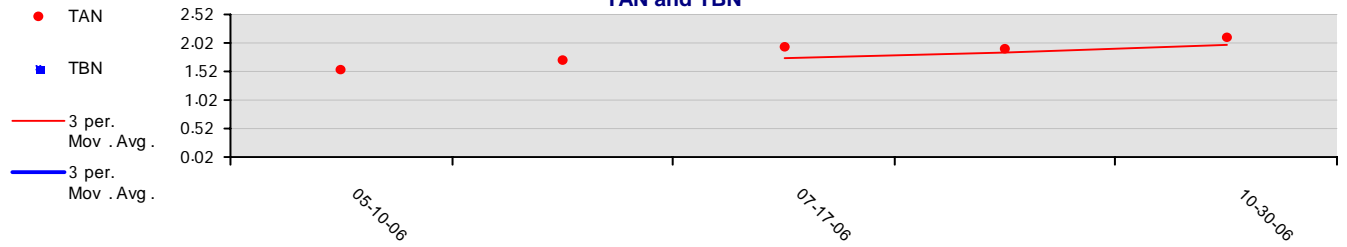
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Oil Condition

Oxidation and Nitration

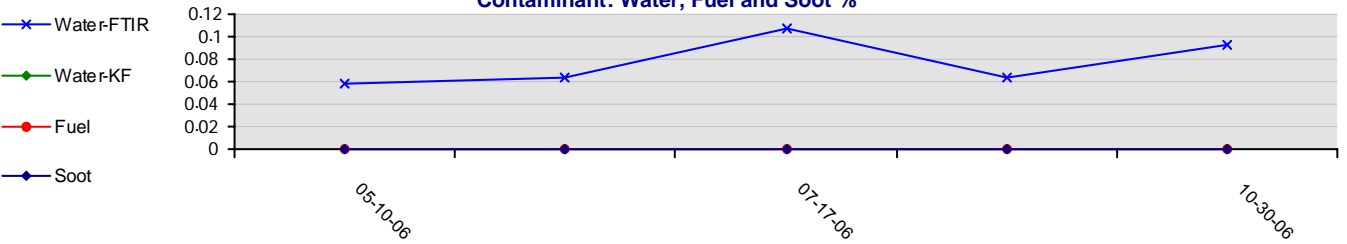


TAN and TBN

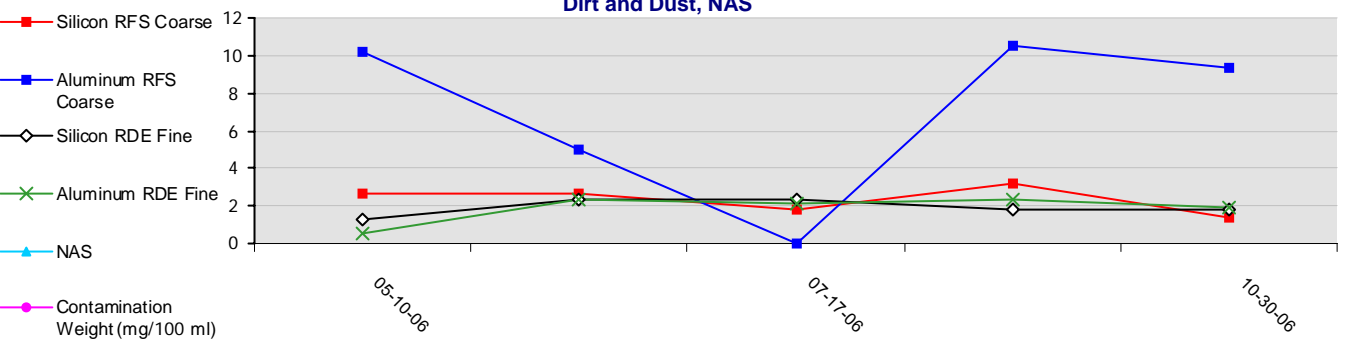


Contamination

Contaminant: Water, Fuel and Soot %



Dirt and Dust, NAS



Others

VPI and AO Additives

