

C Code : **25032**
 U Name :
 T
 O Address : 555/1 Energy Complex Building A, 19th - 36th Floor,
 M Vibhavadi Rangsit Road, Chatuchak, Bangkok 10900
 E R
 Site :
 Location :
 Test code : 804 908

Unit ID : **KX 3800 FWD Oil Filter Port**
 E O U I P M E N T
 Unit Type : Engine Nat Gas
 Unit Make : WAUKESHA
 Unit Model : L 7042GSI
 Oil type / Viscosity : Shell Mysella R 40
 L
 Oil System Capacity : 483.5 Liters

Overall Condition Rating

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

Oil condition tests indicate that the oil is past the end of its' useful service life.
 Water detected may be from condensation, and may indicate engine operation for short durations, that does not allow the water vapors to boil off.
 Note abnormal wear metals.
 Recommend immediately change oil, oil filter and flush system with clean oil to remove contamination, if the oil from this sample is still in use in this component.

Somchai J / Andy Siltton

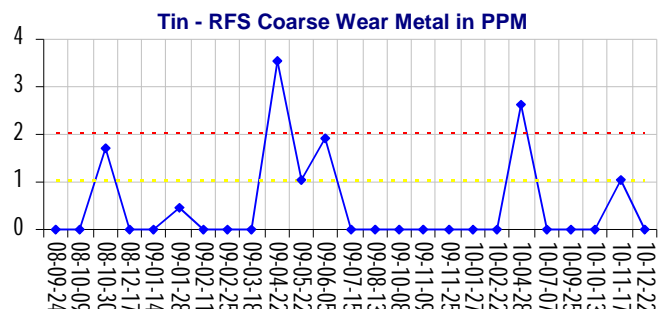
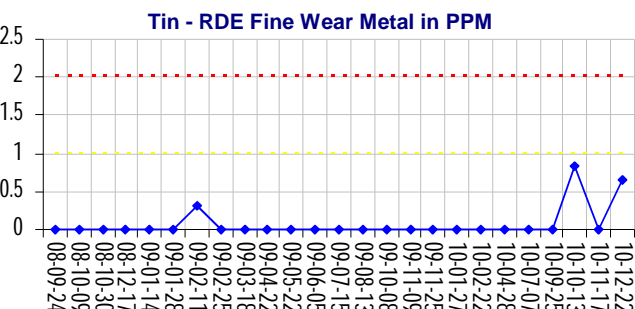
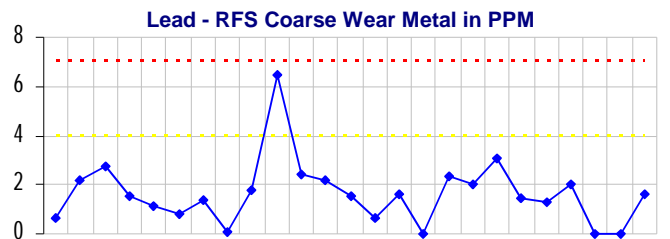
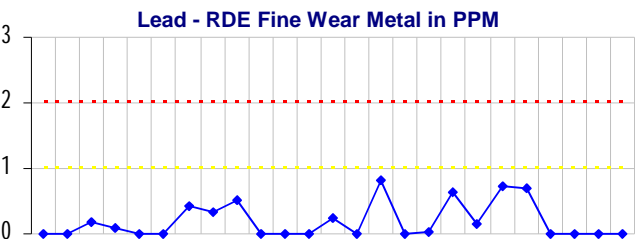
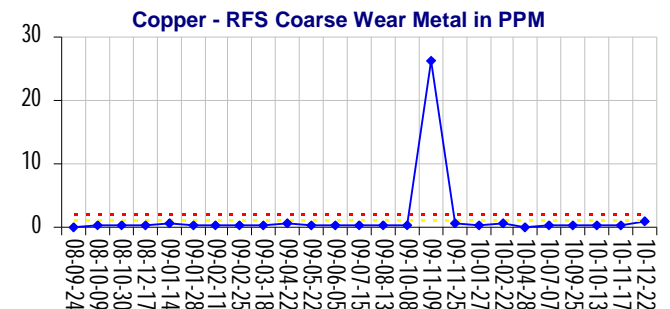
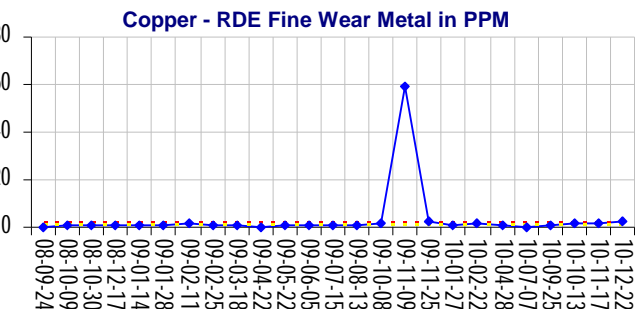
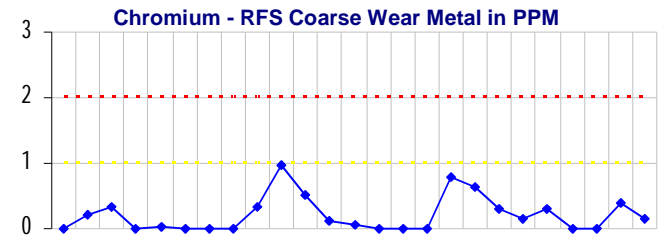
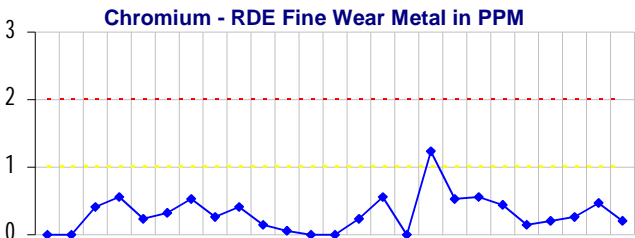
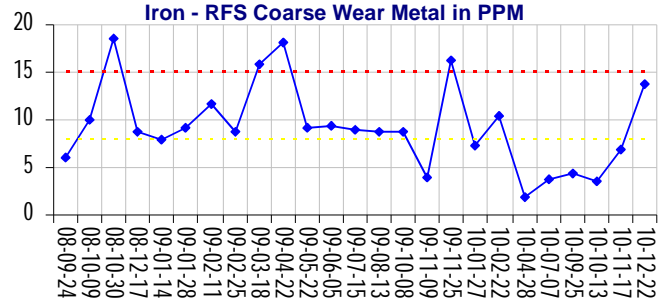
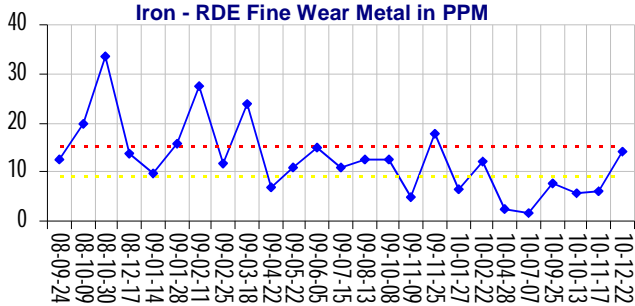
			Current Sample			Previous Sample			Baseline and Alarm Limit							
Condition History			Wear	Oil	Cont.	Wear	Oil	Cont.	Wear	Oil	Cont.	Alarm Limit				
Lab ID Bottle ID Date Sampled Oil Hours (Kms) Unit Hours (Kms) Oil Added (Liters) Filters Hours (Kms)	Test Method	Result	▲	■	▲	▲	▲	●	●	▲	●	Alarm Limit Alarm Limit Matrix -Set Name (Equipment type / oil type) Engine Nat Gas Waukesha SH Mysella R40 (PTTEP)				
				150864			149485			147662						
				923401			923407			921831						
				22-Dec-10			17-Nov-10			13-Oct-10						
				Not Given			Not Given									
				Not Given			Not Given									
Wear Condition												The New Oil (TNO)	RDE fine		RFS coarse	
Wear Element	Method	Unit	RDE fine	RFS coarse	RDE fine	RFS coarse	RDE fine	RFS coarse		U-Caution	U-Warning	U-Caution	U-Warning			
Iron	D-6595	PPM	14.3 C	13.8 C	6.2	6.9	5.7	3.5	0	>9	>15	>8	>15			
Chromium	D-6595	PPM	0.2	0.2	0.5	0.4	0.3	0.0	0	>1	>2	>1	>2			
Lead	D-6595	PPM	0.0	1.6	0.0	0.0	0.0	0.0	0	>1	>2	>4	>7			
Copper	D-6595	PPM	2.3 W	1.1 C	2.0 C	0.4	1.3 C	0.4	0	>1	>2	>1	>2			
Tin	D-6595	PPM	0.7	0.0	0.0	1.0 C	0.8	0.0	0	>1	>2	>1	>2			
Aluminum	D-6595	PPM	1.0	2.8	1.5	1.6	1.0	1.0	0	>4	>6	>4	>6			
Nickel	D-6595	PPM	0.0	0.2	0.0	1.4 C	0.0	0.0	0	>1	>2	>1	>2			
Silver	D-6595	PPM	0.0	0.0	0.0	0.0	0.0	0.0	0							
Molybdenum	D-6595	PPM	1.6	0.7	1.2	0.0	1.6	0.8	0							
Titanium	D-6595	PPM	0.0	0.0	0.0	0.3	0.0	0.0	0							
Oil Condition												TNO	L-Warning	L-Caution	U-Caution	U-Warning
Viscosity @ 40° C	D-445	cSt														
Viscosity @ 100° C	D-445	cSt	16.0 W		15.3 C		15.2 C		14.3	<12.2	<12.9	>15	>15.7			
Oxidation	FTIR	Abs	21.1		16.2		15.4		14.3		>21.5	>25				
Nitration	FTIR	Abs	11.3		8.9		8.5		8.9		>13.4	>15.6				
TAN	D-974	mg KOH/g	3.46 W		2.24 C		2.10 C		0.40		>1.4	>2.4				
TBN	D-4739	mg KOH/g	0.0		0.0		0.0		2.6							
Contamination												TNO			U-Caution	U-Warning
Water	FTIR	% (Wt.)	0.139 C		0.046		0.053		0.025			>0.099	>0.178			
Fuel	SAW	% (Wt.)	0.00		0.00		0.00									
Glycol	FTIR	Abs	0		0		0									
Soot	FTIR	% (Wt.)	0.67		0.61		0.55									
Sodium	D-6595	PPM	4		1		2		3							
Silicon	D-6595	PPM	1.9	1.6	0.8	0.5	0.0	0.4	3	>15	>20	>7	>11			
Additive Element												TNO				
Boron	D-6595	PPM	1		1		0		0							
Magnesium	D-6595	PPM	5		4		4		3							
Calcium	D-6595	PPM	418		389		408		367							
Barium	D-6595	PPM	0		0		0		0							
Phosphorus	D-6595	PPM	448		485		356		576							
Zinc	D-6595	PPM	387	195	363	99	407	97	358							
Additional Test												TNO	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 ● (N) : NORMAL , C or ▲ (C) : CAUTION (first level warning limit) , W or ■ (W) : 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.

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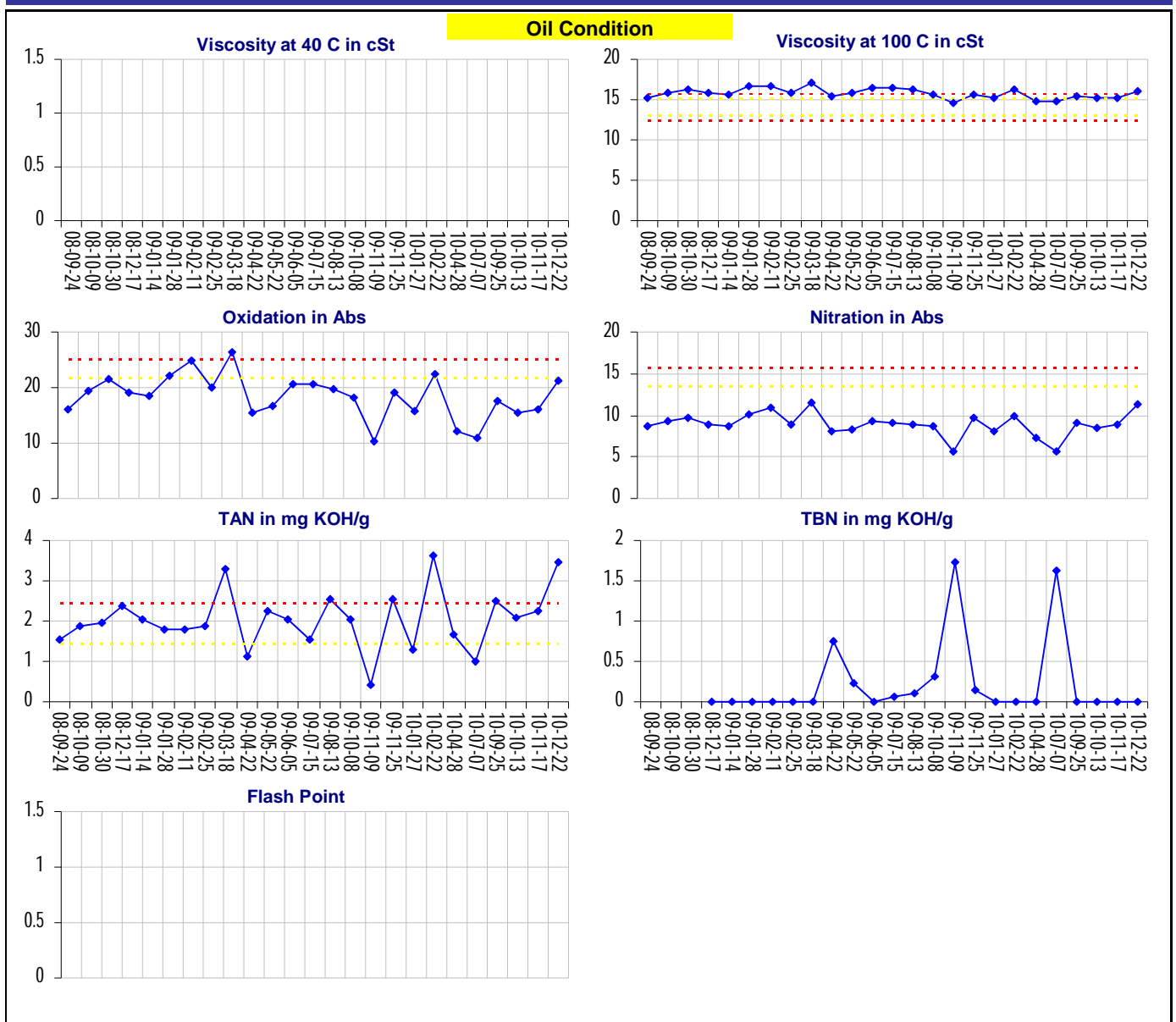
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Wear Condition



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