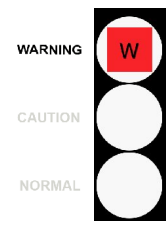


C Code : 23041001
 U Name :
 T Address :
 O Site :
 M Location :
 E Test code : GE826

Unit ID : 1061609 Engine 07
 Unit Type : Engine Nat Gas
 Unit Make : Jenbacher
 Unit Model : JMS 620 GS-NL
 Oil type / Viscosity : SHELL MYSELLA S5 N 40 SAE 40
 Oil System Capacity : 670 Liters



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

Note low TBN and i-pH.
 Recommend change oil and flush system with clean oil to remove contamination, if the oil from this sample is still in use in this component.

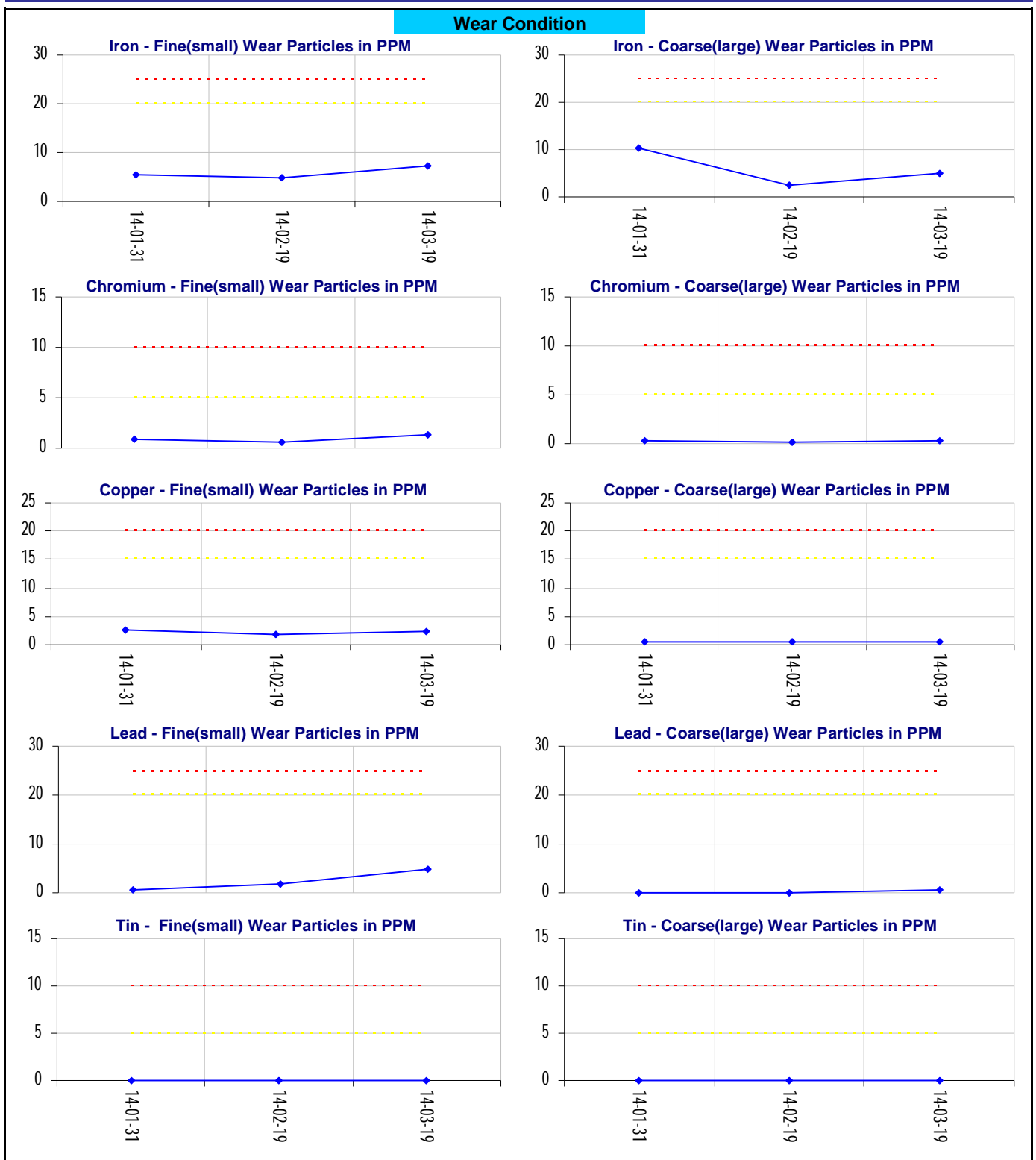
Somchai J.

Condition History			Current Sample			Previous Sample			Baseline and Alarm Limit							
			Wear	Oil	Cont.	Wear	Oil	Cont.	Wear	Oil	Cont.	Alarm Limit				
Lab ID	Test Method	Result	N	W	N	N	C	N	N	C	N	B A S E L I N E	Alarm Limit Matrix -Set Name (Equipment type / oil type)			
Bottle ID			251467	248216	245463	Engine Nat Gas GE Jenbacher SH Mysella LA SAE 40										
Date Sampled			19-Mar-14	19-Feb-14	31-Jan-14											
Oil Hours (Kms)			1035253	1019464	1035085											
Unit Hours (Kms)			1471	878	548											
Oil Change			1471	878	548											
Oil Added (Liters)				200												
Filters Hours (Kms)	1471	878	548													
Wear Condition												Reference	Fine wear		Coarse wear	
Wear Element			Fine (small Wear)	Coarse (large) Wear	Fine (small Wear)	Coarse (large) Wear	Fine (small Wear)	Coarse (large) Wear	Oil (RO)	U-Caution	U-Warning	U-Caution	U-Warning			
Iron	D-6595	PPM	7.3	5.0	4.9	2.6	5.6	10.4	0	>20	>25	>20	>25			
Chromium	D-6595	PPM	1.3	0.2	0.7	0.2	0.9	0.2	0	>5	>10	>5	>10			
Lead	D-6595	PPM	4.9	0.5	1.8	0.0	0.7	0.0	0	>20	>25	>20	>25			
Copper	D-6595	PPM	2.3	0.6	1.8	0.6	2.7	0.6	0	>15	>20	>15	>20			
Tin	D-6595	PPM	0.0	0.0	0.0	0.0	0.0	0.0	0	>5	>10	>5	>10			
Aluminum	D-6595	PPM	4.3	1.7	3.8	1.7	3.6	0.0	0	>15	>20	>15	>20			
Nickel	D-6595	PPM	0.0	0.0	0.1	0.0	0.2	0.0	0	>2	>5	>2	>5			
Silver	D-6595	PPM	0.0	0.0	0.0	0.0	0.0	0.1	0							
Molybdenum	D-6595	PPM	0.0	0.0	0.4	0.0	0.0	0.0	0							
Titanium	D-6595	PPM	0.0	0.0	0.0	0.0	0.0	3.0	0							
Oil Condition												RO	L-Warning	L-Caution	U-Caution	U-Warning
Viscosity @ 40°C	D-445	cSt	14.4		13.8		14.0		13.5	<12	<12.7	>15	>16.46			
Viscosity @ 100°C	D-445	cSt							7.3			>12.8	>14.6			
Oxidation	FTIR	Abs	20.9 W		16.1 W		16.7 W		5.5			>11	>12.4			
Nitration	FTIR	Abs	7.9		6.2		6.4		18.3			>22.9	>27.4			
Sulfation	FTIR	Abs	26.14 C		21.85		21.26					>2.5	>3			
TAN	D-974	mg KOH/g.	2.76 C		1.28		1.91									
TBN	D-4739	mg KOH/g.	1.2 W		2.1 C		1.8 W		4.2	<2	<3.1					
i-pH	GE		3.8 W		5.5		4.5 C			<4	<4.5					
Contamination												RO			U-Caution	U-Warning
Water	FTIR	% (Wt.)	0.074		0.055		0.056		0.048			>0.2	>0.3			
Fuel	SAW	% (Wt.)	0.00		0.00		0.00									
Glycol	FTIR	Abs	0		0		0									
Soot	FTIR	% (Wt.)	0.45		0.43		0.38									
Vanadium	D-6595	PPM	0		0		0		0							
Sodium	D-6595	PPM	7		5		6		5	>25	>50					
Silicon	D-6595	PPM	4.9	4.1	4.0	2.5	2.6	3.3	3	>30	>40	>30	>40			
Additive Element												RO				
Boron	D-6595	PPM	1		1		1		0	>25	>50					
Magnesium	D-6595	PPM	11		9		8		3							
Calcium	D-6595	PPM	1719		1493		1424		1230							
Barium	D-6595	PPM	0		0		0		0							
Phosphorus	D-6595	PPM	248		232		241		202							
Zinc	D-6595	PPM	365	101	343	136	352	93	313							
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 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
 U-Warning : Upper WARNING Level L-Warning : Lower WARNING required Level
 Baseline will be data of either "The new oil" or "Reference oil" or "Oil specification".
 Accuracy of interpretation and recommendation are based on representatives sample and information supplied.
 First Level Alarm Alert Limit in Upper Level and/or Lower Level
 Second Level Alarm Alert Limit in Upper Level and/or Lower Level
 TNO = The new oil , RO = Reference oil , OS = Oil Specification
 No warranty is expressed or implied for this report.

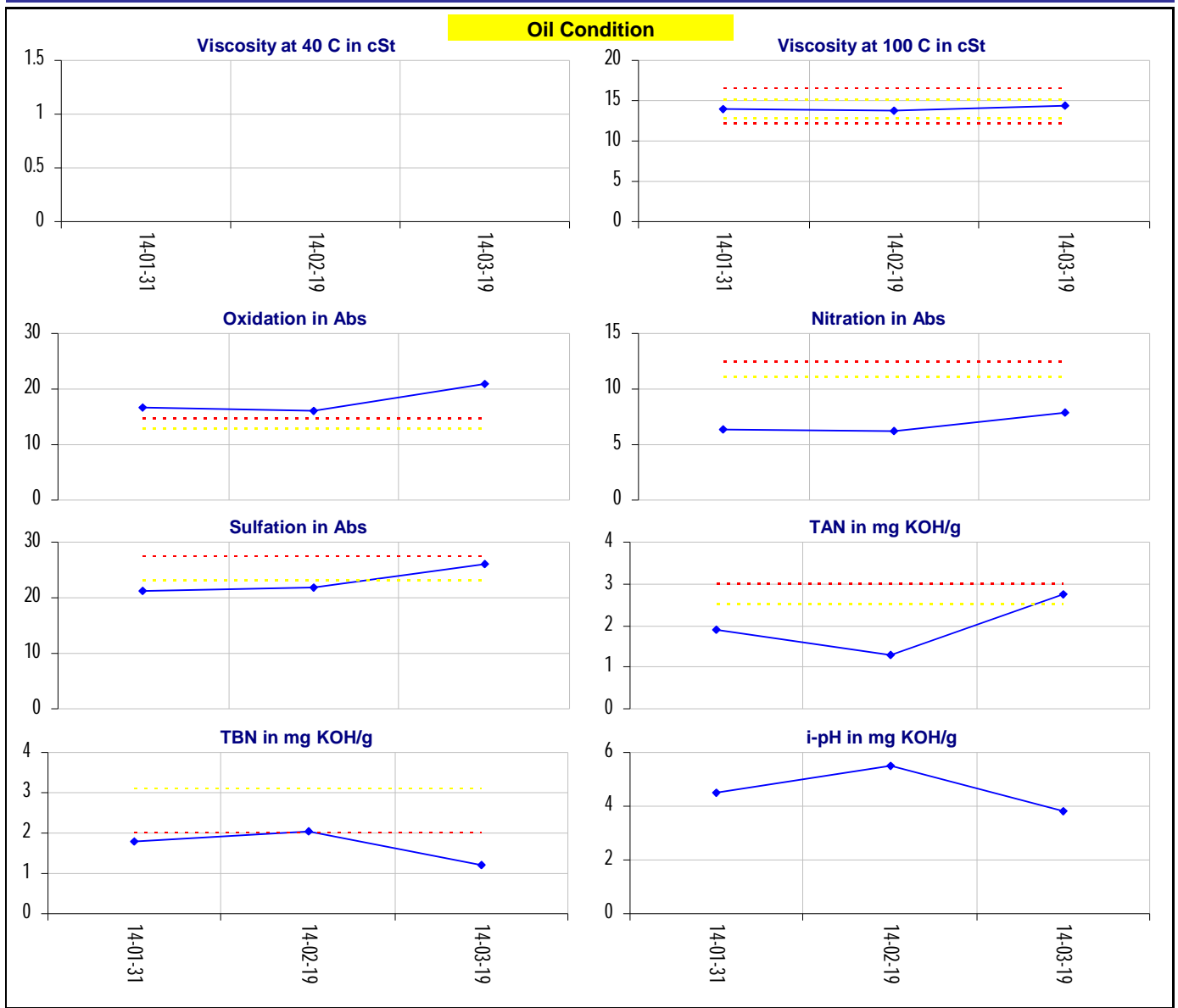
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