

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id HSC-3 (S/N 2052938) Component

Refrigeration Compressor Fluid USPI 1009-68 SC (65 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

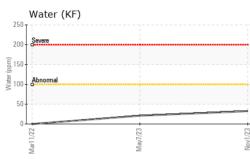
Fluid Condition

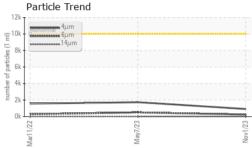
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

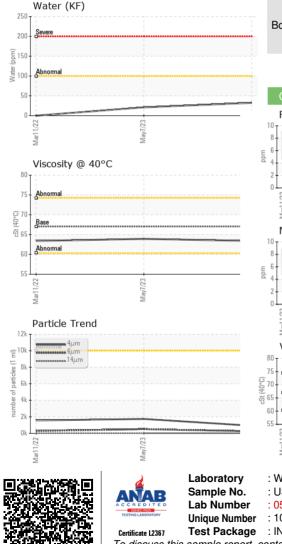
SAMPLE INFORMATIONmethodlimit/basecurrenthistory1history1Sample NumberClient InfoUSP0003069USP249736USP23691Sample DateClient Info01 Nov 202307 May 202311 Mar 202Machine AgehrsClient Info369203275526954Oil AgehrsClient Info369203275526954Oil ChangedClient Info369203275526954Oil ChangedClient InfoN/ANot ChangdN/ASample StatusImit/basecurrenthistory1history1WEAR METALSmethodlimit/basecurrenthistory1history1IronppmASTM D5185m>8000NickelppmASTM D5185m>2000NickelppmASTM D5185m>2000SilverppmASTM D5185m>30<1<1LeadppmASTM D5185m>20<10ASTM D5185m>30<1000	110
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WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >8 0 0 0 Chromium ppm ASTM D5185m >2 0 0 0 Nickel ppm ASTM D5185m 0 <1 0 0 Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >2 0 0 0 Lead ppm ASTM D5185m >2 0 0 0	
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Nickel ppm ASTM D5185m 0 <1	
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Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >3 0 <1	
Aluminum ppm ASTM D5185m >3 0 <1	
Lead ppm ASTM D5185m >2 0 <1 0	
Copper ppm ASTM D5185m >8 0 0 0	
Tin ppm ASTM D5185m >4 0 0 0	
Vanadium ppm ASTM D5185m 0 0 0	
Cadmium ppm ASTM D5185m 0 0 0	
ADDITIVES method limit/base current history1 history	ry2
Boron ppm ASTM D5185m 0 0 0	
Barium ppm ASTM D5185m 0 0 0	
Molybdenum ppm ASTM D5185m 0 0 0	
Manganese ppm ASTM D5185m 0 0 0	
Magnesium ppm ASTM D5185m 0 <1	
Calcium ppm ASTM D5185m 0 0 0	
Phosphorus ppm ASTM D5185m 0 0 0	
Zinc ppm ASTM D5185m 0 <1 0	
Sulfur ppm ASTM D5185m 50 0 4 7	
CONTAMINANTS method limit/base current history1 history	ry2
Silicon ppm ASTM D5185m >15 0 2 <1	
Sodium ppm ASTM D5185m 0 0 0	
Potassium ppm ASTM D5185m >20 0 1 <1	
Water % ASTM D6304 >0.01 0.003 0.002 0.00	
ppm Water ppm ASTM D6304 >100 32.4 21.0 0.00	
FLUID CLEANLINESS method limit/base current history1 history	ry2
Particles >4μm ASTM D7647 >10000 917 1740 1562	
Particles >6μm ASTM D7647 >2500 244 505 293	
Particles >14μm ASTM D7647 >640 12 9 13	
Particles >21μm ASTM D7647 >160 3 1 1	
Particles >38μm ASTM D7647 >40 0 0	
Particles >71μm ASTM D7647 >10 0 0	
Oil Cleanliness ISO 4406 (c) >20/18/16 17/15/11 18/16/10 18/15/1	11
FLUID DEGRADATION method limit/base current history1 history	ry2
Acid Number (AN) mg KOH/g ASTM D974 0.005 0.014 0.015 0.014	



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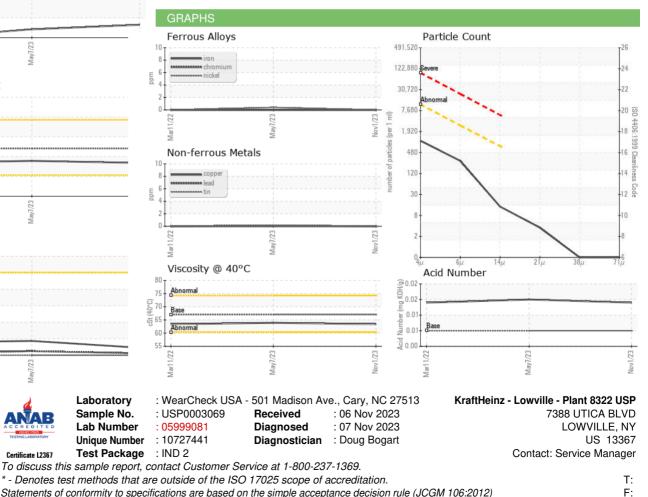






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	67	63.4	63.92	63.4
SAMPLE IMAGES	5	method	limit/base	current	history1	history2
Color				A W		
Bottom				(0)		

Bottom



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)