

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id HS-3 - 920482

Component Refrigeration Compressor Fluid REFRIG COMP OIL ISO 68 (--- 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.

			Jan2023	Sep2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0001817	USP246514	
Sample Date		Client Info		28 Sep 2023	24 Jan 2023	
Machine Age	hrs	Client Info		0	13640	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	ATTENTION	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	0	
Chromium	ppm	ASTM D5185m	>2	0	0	
Nickel	ppm	ASTM D5185m		0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>3	0	0	
Lead	ppm	ASTM D5185m	>2	0	0	
Copper	ppm	ASTM D5185m	>8	0	0	
Tin	ppm	ASTM D5185m	>4	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	
Barium	ppm	ASTM D5185m	5	0	0	
Molybdenum	ppm	ASTM D5185m	5	0	0	
Manganese	ppm	ASTM D5185m		<1	0	
Magnesium	ppm	ASTM D5185m	5	0	0	
Calcium	ppm	ASTM D5185m	12	0	0	
Phosphorus	ppm	ASTM D5185m	12	0	0	
Zinc	ppm	ASTM D5185m	12	0	0	
Sulfur	ppm	ASTM D5185m	1000	9	0	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	
Sodium	ppm	ASTM D5185m		0	0	
Potassium	ppm	ASTM D5185m	>20	<1	<1	
Water	%	ASTM D6304	>0.01	0.001	0.002	
ppm Water	ppm	ASTM D6304	>100	0.00	23.7	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	6979	9932	
Particles >6µm		ASTM D7647	>2500	1445	A 3107	
Particles >14µm		ASTM D7647	>320	41	118	
Particles >21µm		ASTM D7647	>80	7	11	
Particles >38µm		ASTM D7647	>20	0	1	
Particles >71µm		ASTM D7647	>4	0	0	
Oil Cleanliness		ISO 4406 (c)	>20/18/15	20/18/13	▲ 20/19/14	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.10	0.014	0.015	



OIL ANALYSIS REPORT

scalar

scalar

scalar

scalar

scalar

scalar

scalar

scalar

cSt

White Metal

Yellow Metal

Precipitate

Silt

Debris

Odor

Sand/Dirt

Appearance

Free Water

Visc @ 40°C

Emulsified Water

FLUID PROPERTIES

SAMPLE IMAGES

*Visual

*Visual

*Visua

*Visual

*Visual

*Visual

*Visual

*Visual

ASTM D445

scalar *Visual

scalar *Visual

NONE

NONE

NONE

NONE

NONE

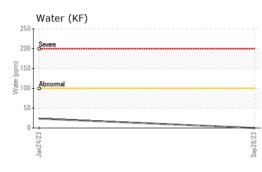
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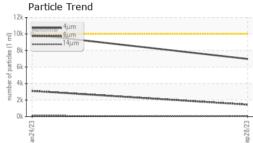
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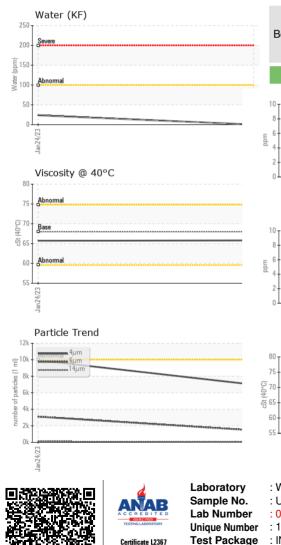
NORML

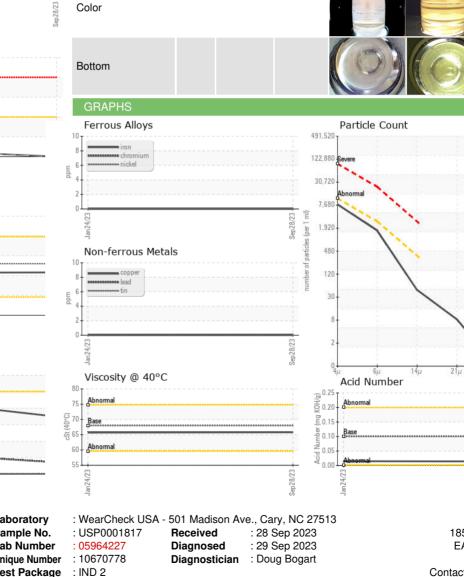
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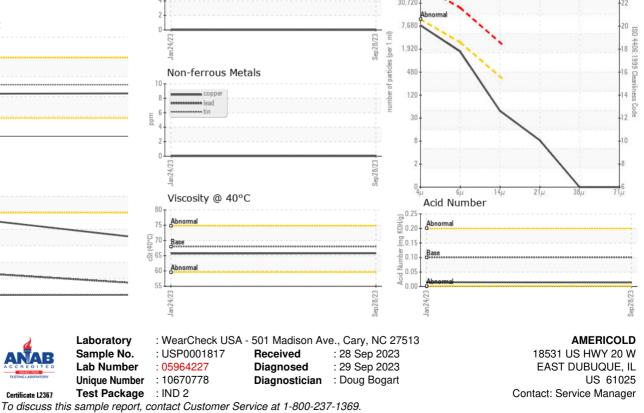
68











NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

65.8

NONE

NONE

NONE

NONE

LIGHT

NONE

NORML

NORML

NEG

NEG

65.7

no image

no image

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

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