

OIL ANALYSIS REPORT

Area PHS AND PLS SYSTEM Machine Id RECYCLED NH3 SYSTEM 2 Component

Refrigeration Compressor Fluid USPI ALT-68 SC (--- GAL)

DIAGNOSIS

Recommendation

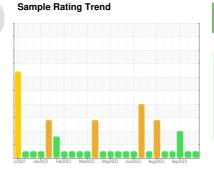
This is a baseline read-out on the submitted sample.

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.



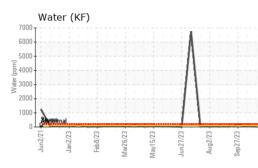
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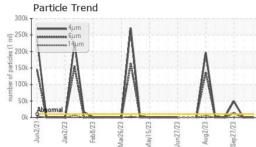
NORMAL

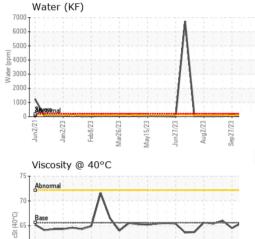
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0002950	USP0001719	USP248087
Sample Date		Client Info		30 Oct 2023	02 Oct 2023	27 Sep 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	6	17	<1
Chromium	ppm	ASTM D5185m	>2	<1	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	<1	<1
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	<1	0	<1
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
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		<1	0	<1
Magnesium	ppm	ASTM D5185m		0	<1	0
Calcium	ppm	ASTM D5185m		0	1	0
Phosphorus	ppm	ASTM D5185m		0	1	0
Zinc	ppm	ASTM D5185m		0	<1	0
Sulfur	ppm	ASTM D5185m	50	3	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon			>15	3	3	2
Sodium	ppm	ASTM D5185m ASTM D5185m	>15	3 1	0	<1
Potassium	ppm	ASTM D5185m	>20	، <1	<1	0
Water	ppm %	ASTM D5185III		0.003	0.003	0.012
ppm Water	ppm	ASTM D6304		25.2	36.9	125.9
FLUID CLEANLIN		method	limit/base	current	history1	history2
		ASTM D7647	>10000	390	316	▲ 49608
Particles >4µm Particles >6µm		ASTM D7647 ASTM D7647		94	72	▲ 13888
						▲ 13888 ▲ 957
Particles >14µm		ASTM D7647	>320 >80	10 5	9	▲ 957 ▲ 193
Particles >21µm		ASTM D7647 ASTM D7647	>00	5 1	1	193
Particles >38µm Particles >71µm		ASTM D7647 ASTM D7647	>20	0	0	0
Oil Cleanliness		ISO 4406 (c)	>4 >20/18/15	0 16/14/10	15/13/10	23/21/17
	TION	()				
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.012	0.013	0.015



OIL ANALYSIS REPORT







60

55

300

€²⁵⁰

50

0

Ab

ah 8/73

50/Cue

Particle Trend

CICU

ah 8/2

Aar26/2:

/av15/2

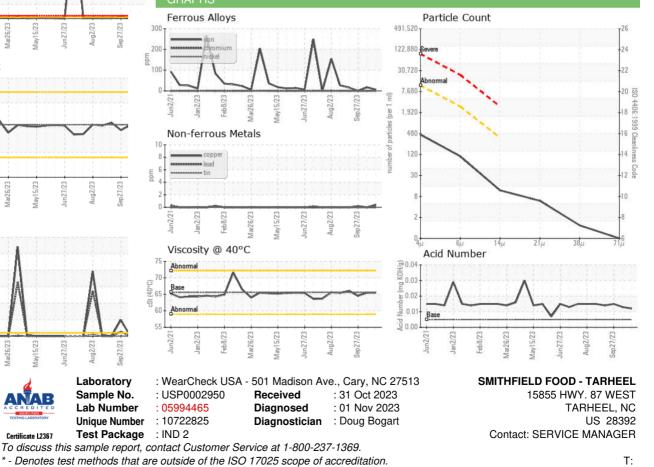
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	65.6	65.5	65.5	64.5
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color				•		

Bottom





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

Contact/Location: SERVICE MANAGER - SMITAR