

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

FRICK TYSCUM1-10 FRK (S/N GDSH19310117)

Refrigeration Compressor

USPI ALT-68 SC (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0012415	USP0006887	USP0002738
Sample Date		Client Info		09 Jun 2024	15 Feb 2024	23 Oct 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				ATTENTION	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	1	0
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		<1	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	0
Lead	ppm	ASTM D5185m	>2	0	0	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	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		0	<1	0
Calcium	ppm	ASTM D5185m		2	0	0
Phosphorus	ppm	ASTM D5185m		0	0	<1
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	42	53	54
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	1	1
Sodium	ppm	ASTM D5185m		1	1	0
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
Water	%	ASTM D6304	>0.01	0.007	0.002	0.004
ppm Water	ppm	ASTM D6304	>100	72	24	49.9
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		16777	30027	31124
Particles >6µm		ASTM D7647	>2500	<mark> </mark> 3065	▲ 5950	▲ 7524
Particles >14µm		ASTM D7647	>320	23	232	A 337
Particles >21µm		ASTM D7647	>80	1	44	57
Particles >38µm		ASTM D7647	>20	0	1	1
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/18/15	21/19/12	▲ 22/20/15	▲ 22/20/16
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.015	0.013

Contact/Location: BRENT SMITH - TYSCUMGA Page 1 of 2



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scalar

scalar

scalar

scalar

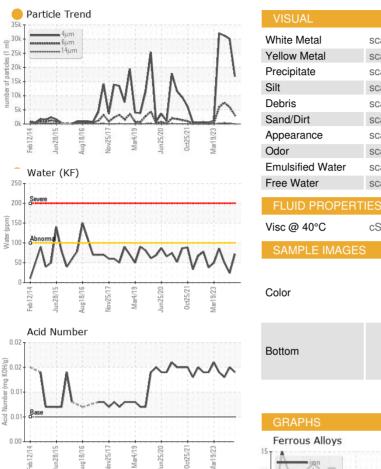
scalar

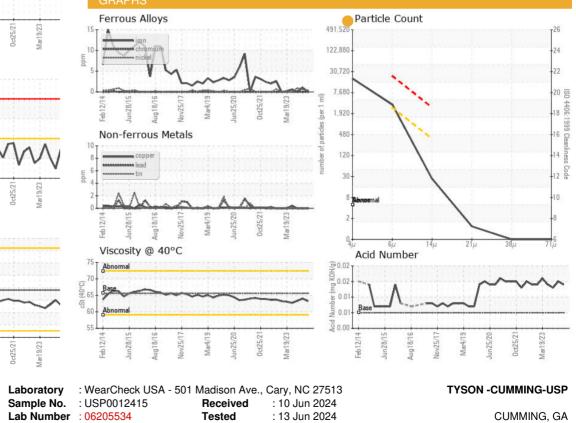
scalar

scalar

scalar

cSt





: 13 Jun 2024 - Doug Bogart

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

>0.01

65.6

*Visual

*Visual

*Visua

*Visual

*Visual

*Visual

*Visual

*Visual

ASTM D445

scalar *Visual

scalar *Visual

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

63.2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

64.0

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

63.3



1028/J Feb 1

Water (KF)

20

E 150

Nater 100

5

74 72

70

cSt (40°C) 99 89

62

60

5

A

Feb12/1

Feb12/1 128/1

Viscosity @ 40°C

Lab Number Unique Number : 11072995 Test Package : IND 2 Certificate 12367

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)

Diagnosed

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Contact: BRENT SMITH

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Contact/Location: BRENT SMITH - TYSCUMGA

US 30130