

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

FES TYSNRH HS105 (S/N 19L286V) Component

Refrigeration Compressor

USPI 1009-68 SC (--- GAL)

DIAGNOSIS

A Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high 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		USP0004987	USP0001226	USP255387
Sample Date		Client Info		15 Jan 2024	15 Oct 2023	11 Jul 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				ABNORMAL	NORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	nom	ASTM D5185m	>8	0	0	0
Chromium	ppm	ASTM D5185m	>2	۰ <1	0	0
Nickel	ppm		>2	0	<1	0
	ppm	ASTM D5185m				
Titanium	ppm	ASTM D5185m	0	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	<1	0
Copper	ppm	ASTM D5185m	>8	0	0	0
Tin	ppm	ASTM D5185m	>4	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
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		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		0	0	<1
Zinc	ppm	ASTM D5185m		0	<1	0
Sulfur	ppm	ASTM D5185m	50	0	0	14
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water	%	ASTM D6304	>0.01	0.002	0.003	0.001
ppm Water	ppm	ASTM D6304	>100	23	28.8	9.8
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	^ 25848	2764	7458
Particles >6µm		ASTM D7647	>2500	4713	702	▲ 2552
Particles >14µm		ASTM D7647	>320	62	31	80
Particles >21µm		ASTM D7647	>80	6	7	8
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	A 22/19/13	19/17/12	▲ 20/19/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.013	0.014



Acid Number

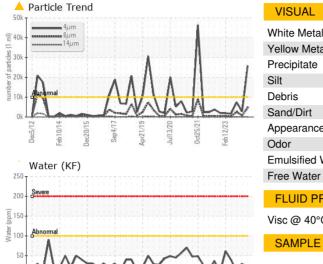
0.02

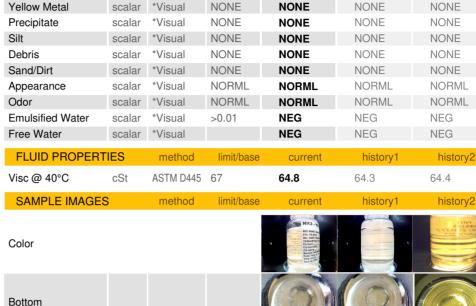
0.01 (B/HOX)

OIL ANALYSIS REPORT

scalar

VISUAL





limit/base

NONE

current

NONE

history1

NONE

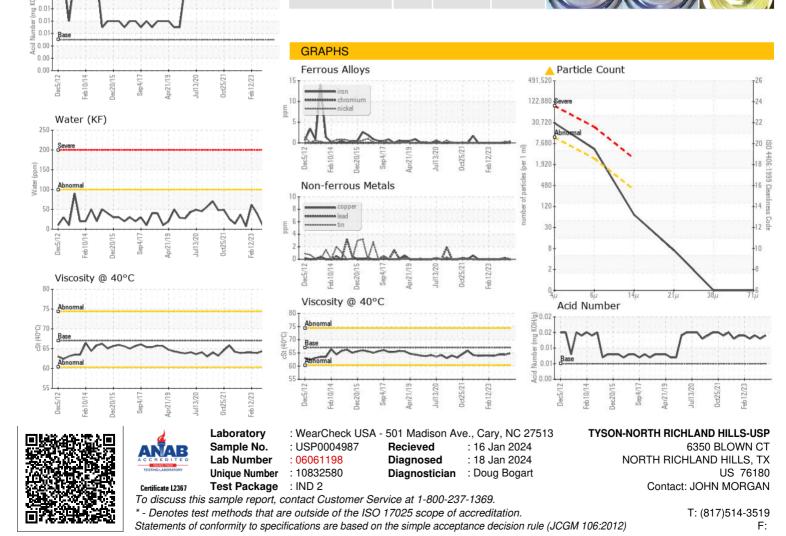
history2

NONE

method

*Visual

Bottom



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Contact/Location: JOHN MORGAN - TYSNORTX

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