

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

FRICK C 12 (S/N F0160WFMNTHAA03) Component

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

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 component. The amount and size of particulates present in the system is acceptable.

Fluid Condition

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

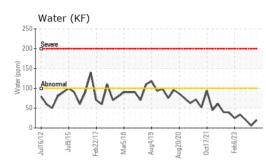
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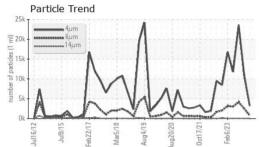


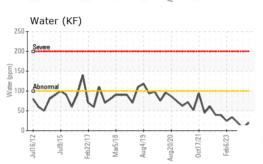
SAMPLE INFORM	ATION	method				history2
Sample Number		Client Info		USP0004246	USP0001872	USP243718
Sample Date		Client Info		07 Dec 2023	26 Sep 2023	16 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	0	<1
Chromium	ppm	ASTM D5185m	>2	<1	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		<1	0	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m		0	<1	0
Tin	ppm	ASTM D5185m	>4	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	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	<1	0
Magnesium	ppm	ASTM D5185m		0	1	0
Calcium	ppm	ASTM D5185m		<1	<1	1
Phosphorus	ppm	ASTM D5185m		0	0	1
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	0	21	27
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	1	2
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	<1	2	0
Water	%	ASTM D6304	>0.01	0.002	0.001	0.002
ppm Water	ppm	ASTM D6304	>100	20	5.8	20.5
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		3220	11117	23608
Particles >6µm		ASTM D7647	>2500	795	<u> </u>	4 157
Particles >14µm		ASTM D7647	>320	38	71	63
Particles >21µm		ASTM D7647	>80	8	13	9
Particles >38µm		ASTM D7647	>20	0	3	0
Particles >71µm		ASTM D7647	>4	0	2	0
Oil Cleanliness		ISO 4406 (c)	>/18/15	19/17/12	1 21/19/13	2 2/19/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2



OIL ANALYSIS REPORT







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70

(40°C)

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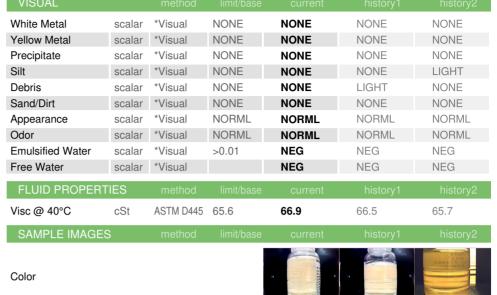
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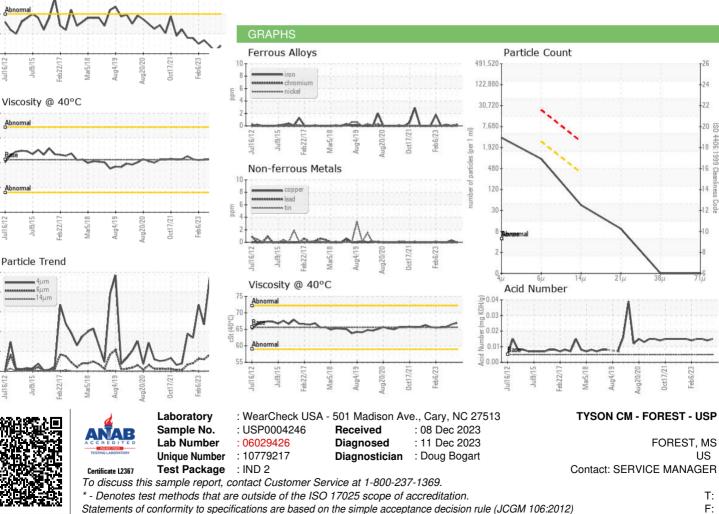
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Contact/Location: SERVICE MANAGER - TYSFORMS