

OIL ANALYSIS REPORT

NORMAL

Machine Id

FES TYSBER B-13 (S/N XF0064)

Refrigeration Compressor Fluic

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

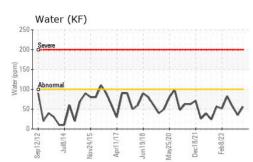
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

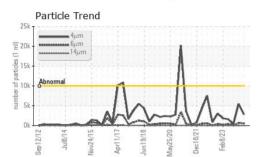
Sample Date Client Info 08 Apr 2024 16 Jan 2024 02 Aug 2023 Machine Age hrs Client Info 38220 36830 36853 Oil Age hrs Client Info 0 0 0 0 Oil Changed Client Info N/A N/A N/A N/A N/A Sample Status method limit/base current history1 history2 Iron ppm ASTM 05155n >8 12 4 16 11 Chromium ppm ASTM 05155n >2 <1 0 0 Nickel ppm ASTM 05155n >2 <1 0 0 Aluminum ppm ASTM 05155n >2 <1 0 0 Aumanum ppm ASTM 05155n >2 <1 0 0 Vanadium ppm ASTM 05155n <1 0 0 0 Aumanum ppm ASTM 05155n <1 0			12012 Jul201	14 Nov2015 Apr2017	Jun2018 May2020 Dec2021 F	eb2023	
Sample Date Client Info 08 Apr 2024 16 Jan 2024 02 Aug 2023 Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info 0 0 0 0 Oil Changed Client Info N/A N/A N/A N/A N/A Sample Status method Imil/base current history1 history2 Iron ppm ASTM 05186m >8 12 A 16 11 Chromium ppm ASTM 05186m >2 <1 0 0 Nickel ppm ASTM 05186m >2 <1 0 0 Lead ppm ASTM 05186m >2 <1 0 0 Vanadium ppm ASTM 05186m >2 <1 0 0 0 Adminum ppm ASTM 05186m <1 0 0 0 Vanadium ppm ASTM 05186m <1 0	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
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Tin ppm ASTM D5185m >4 <1	Lead	ppm	ASTM D5185m	>2	<1	0	0
Vanadium ppm ASTM D5185m <1	Copper	ppm	ASTM D5185m	>8	<1	<1	0
Cadmium ppm ASTM D5185m <1	Tin	ppm	ASTM D5185m	>4	<1	0	0
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 Barium ppm ASTM D5185m 0 1 0 Molybdenum ppm ASTM D5185m 0 0 0 Magnese ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 Sulfur ppm ASTM D5185m 50 0 0 0 Sodium ppm ASTM D5185m 20 2 <1 0 Vater % ASTM D5185m 20 2 <1 0 Putter ppm ASTM D6304 >0.01 0.0003 0.00	Vanadium	ppm	ASTM D5185m		<1	0	0
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Barium ppm ASTM D5185m 0 1 0 Molybdenum ppm ASTM D5185m 0 0 0 Maganese ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m <1 <1 0 Calcium ppm ASTM D5185m 0 0 0 Calcium ppm ASTM D5185m 0 0 0 Zinc ppm ASTM D5185m 0 0 0 Sulfur ppm ASTM D5185m 50 0 0 0 Sulfur ppm ASTM D5185m 50 0 0 0 Sodium ppm ASTM D5185m >15 4 4 3 Sodium ppm ASTM D5185m >20 2 <1 0 Water % ASTM D5185m >20 2 <1 0 Particles >4µm ASTM D6304 >10.0 56 35 <th>ADDITIVES</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	ADDITIVES		method	limit/base	current	history1	history2
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Sodium ppm ASTM D5185m 0 0 0 0 Potassium ppm ASTM D5185m >20 2 <1 0 Water % ASTM D6304 >0.01 0.005 0.003 0.005 ppm Water ppm ASTM D6304 >100 56 35 57.4 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 2759 5446 390 Particles >6µm ASTM D7647 >2500 547 642 69 Particles >14µm ASTM D7647 >320 16 17 2 Particles >21µm ASTM D7647 >20 0 0 0 Particles >38µm ASTM D7647 >20 0 0 0 Particles >71µm ASTM D7647 >4 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 19/16/11 20/17/11 16/13/9	CONTAMINANTS		method	limit/base	current	history1	history2
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Particles >38μm ASTM D7647 >20 0 0 0 Particles >71μm ASTM D7647 >4 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 19/16/11 20/17/11 16/13/9 FLUID DEGRADATION method limit/base current history1 history2	Particles >14µm		ASTM D7647	>320	16	17	2
Particles >71μm ASTM D7647 >4 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 19/16/11 20/17/11 16/13/9 FLUID DEGRADATION method limit/base current history1 history2	Particles >21µm		ASTM D7647	>80	4	3	0
Oil Cleanliness ISO 4406 (c) >20/18/15 19/16/11 20/17/11 16/13/9 FLUID DEGRADATION method limit/base current history1 history2	Particles >38µm		ASTM D7647	>20	0	0	0
FLUID DEGRADATION method limit/base current history1 history2	Particles >71µm		ASTM D7647	>4	0	0	0
	Oil Cleanliness		ISO 4406 (c)	>20/18/15	19/16/11	20/17/11	16/13/9
Acid Number (AN) mg KOH/g ASTM D974 0.005 0.042 0.014 0.015	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.042	0.014	0.015

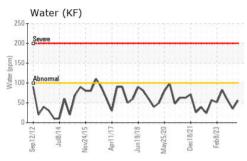
Contact/Location: MIKE CISCO - TYSBER01

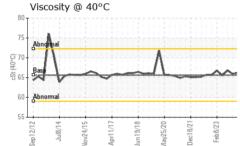


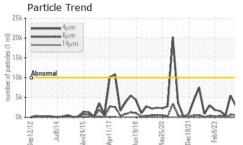
OIL ANALYSIS REPORT











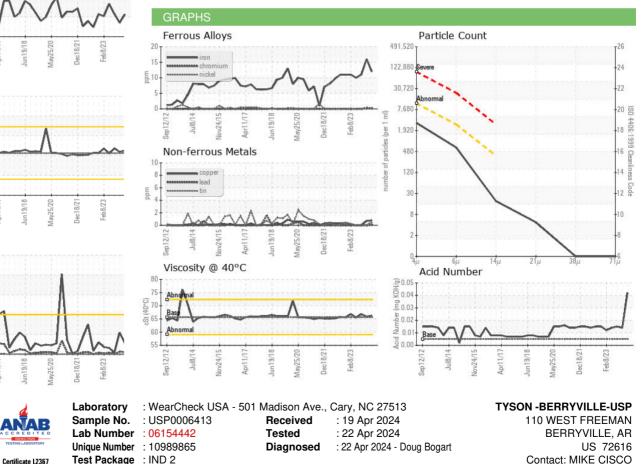


Bottom

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)



Report Id: TYSBER01 [WUSCAR] 06154442 (Generated: 04/23/2024 13:57:39) Rev: 1

Contact/Location: MIKE CISCO - TYSBER01

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