

OIL ANALYSIS REPORT

ISO

Machine Id

FES TYSVER 6 (S/N MK5-398)

Component Refrigeration Compressor

Fluid USPI 1009-68 SC (130 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

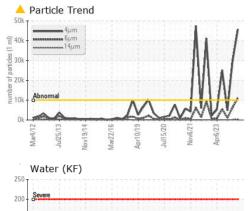
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

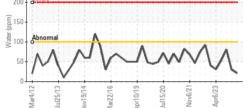
Sample Date Client Info 27 Apr 2024 17 Jan 2024 06 Oct 2023 Machine Age hrs Client Info 41347 39270 72207 Oil Age hrs Client Info 0 0 0 0 Oil Changed Client Info NA NA NA NA NA Sample Status method limit/base current history1 history2 Iron ppm ASTM D5185m >8 0 0 0 Chromium ppm ASTM D5185m >2 0 0 0 Nickel ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Cadmium ppm ASTM D5185m >2 0 0 0 Vanadium ppm ASTM D5185m >2 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
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Oil Age hrs Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A N/A Sample Status Image Image current ABNORMAL NORMAL WEAR METALS method Imit/base current history1 history2 from ppm ASTM D5185m >2 0 0 0 Nickel ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 Copper ppm ASTM D5185m >4 0 0 0 Admium ppm ASTM D5185m A 0 0 0 Admium ppm ASTM D5185m A 0 0 0 Admium ppm ASTM D5185m A 0 0 0 Admium </th <th>Sample Date</th> <th></th> <th>Client Info</th> <th></th> <th>27 Apr 2024</th> <th>17 Jan 2024</th> <th>06 Oct 2023</th>	Sample Date		Client Info		27 Apr 2024	17 Jan 2024	06 Oct 2023
Oil Changed Client Info N/A N/A N/A N/A Sample Status Image of the status Image of the status ABNORMAL ABNORMAL NORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >8 0 0 0 Chromium ppm ASTM D5185m >2 0 0 0 Nickel ppm ASTM D5185m >2 0 0 0 Numinum ppm ASTM D5185m >2 0 0 0 Lead ppm ASTM D5185m >2 0 0 0 Vanadium ppm ASTM D5185m >2 0 0 0 Vanadium ppm ASTM D5185m >4 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m	Machine Age	hrs	Client Info		41347	39270	72207
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Titanium ppm ASTM D5185m <1	Chromium	ppm	ASTM D5185m	>2	0	0	0
Titanium ppm ASTM D5185m <1	Nickel	ppm	ASTM D5185m		0	0	0
Atuminum ppm ASTM D5185m >3 0 0 0 Lead ppm ASTM D5185m >2 0 0 0 Copper ppm ASTM D5185m >8 0 0 0 Vanadium ppm ASTM D5185m >4 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 20 0 0 13 <th>Titanium</th> <th></th> <th>ASTM D5185m</th> <th></th> <th><1</th> <th>0</th> <th><1</th>	Titanium		ASTM D5185m		<1	0	<1
Aluminum ppm ASTM D5185m >3 0 0 0 Lead ppm ASTM D5185m >2 0 0 0 Copper ppm ASTM D5185m >4 0 0 0 Vanadium ppm ASTM D5185m >4 0 0 0 Vanadium ppm ASTM D5185m >4 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Magaese ppm ASTM D5185m 0 0 0 0 Magaesium ppm ASTM D5185m 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m >20 0 0 13 <th>Silver</th> <th>ppm</th> <th>ASTM D5185m</th> <th>>2</th> <th>0</th> <th>0</th> <th>0</th>	Silver	ppm	ASTM D5185m	>2	0	0	0
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Molybdenum ppm ASTM D5185m 0 0 0 Marganese ppm ASTM D5185m <1 <1 0 Magnesium ppm ASTM D5185m 0 0 0 Calcium ppm ASTM D5185m 0 0 0 Calcium ppm ASTM D5185m 0 0 0 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 50 0 0 13 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 1 0 <1 0 Sodium ppm ASTM D5185m >20 0 0 0 0 Water % ASTM D5185m >20 0 0.003 0.008 ppm Water ppm ASTM D6304 >100 21 30 80.9 FLUID CLEANLINESS	Boron	ppm	ASTM D5185m		0	0	0
Manganese ppm ASTM D5185m <1	Barium	ppm	ASTM D5185m		0	0	0
Magnesium ppm ASTM D5185m 0 0 0 Calcium ppm ASTM D5185m <1 1 1 Phosphorus ppm ASTM D5185m 0 0 0 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 50 0 0 13 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 0 <1 0 Sodium ppm ASTM D5185m >20 0 0 0 Sodium ppm ASTM D6304 >0.01 0.002 0.003 0.008 spm Water ppm ASTM D6304 >100 21 30 80.9 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >200 11312 6417 1147 Pa	Molybdenum	ppm	ASTM D5185m		0	0	0
Calcium ppm ASTM D5185m <1	Manganese	ppm	ASTM D5185m		<1	<1	0
Phosphorus ppm ASTM D5185m 0 0 0 0 Zinc ppm ASTM D5185m 50 0 0 0 0 Sulfur ppm ASTM D5185m 50 0 0 0 13 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 0 <1	Magnesium	ppm	ASTM D5185m		0	0	0
Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 50 0 0 13 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 0 <1 0 Sodium ppm ASTM D5185m >15 0 <1 0 Sodium ppm ASTM D5185m >20 0 0 0 Potassium ppm ASTM D5185m >20 0 0.003 0.008 water % ASTM D6304 >0.01 0.002 0.003 0.008 ppm Water ppm ASTM D7647 >1000 ▲ 45676 ▲ 30083 4787 Particles >4µm ASTM D7647 >2500 ▲ 11312 ▲ 6417 1147 Particles >4µm ASTM D7647 >320 264 144 45 Particles >38µm ASTM D7647 >20 1	Calcium	ppm	ASTM D5185m		<1	1	1
Sulfur ppm ASTM D5185m 50 0 0 13 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 0 <1	Phosphorus	ppm	ASTM D5185m		0	0	0
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 0 <1 0 Sodium ppm ASTM D5185m 1 0 <1 0 Potassium ppm ASTM D5185m >20 0 0 0 Water % ASTM D6304 >0.01 0.002 0.003 0.008 ppm Mastrix D6304 >100 21 30 80.9 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 ▲ 45676 ▲ 30083 4787 Particles >6µm ASTM D7647 >2500 ▲ 11312 ▲ 6417 1147 Particles >1µm ASTM D7647 >20 1 0 1 Particles >21µm ASTM D7647 >20 1 0 1 Particles >38µm ASTM D7647 >20 1 0 1	Zinc	ppm	ASTM D5185m		0	0	0
Silicon ppm ASTM D5185m >15 0 <1	Sulfur	ppm	ASTM D5185m	50	0	0	13
Sodium ppm ASTM D5185m 1 0 <1	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 0 0 0 Water % ASTM D6304 >0.01 0.002 0.003 0.008 ppm Water ppm ASTM D6304 >100 21 30 80.9 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 ▲ 45676 ▲ 30083 4787 Particles >6µm ASTM D7647 >2500 ▲ 11312 ▲ 6417 1147 Particles >14µm ASTM D7647 >320 264 144 45 Particles >21µm ASTM D7647 >20 1 0 1 Particles >38µm ASTM D7647 >20 1 0 1 Particles >71µm ASTM D7647 >4 0 0 0 0 OIl Cleanliness ISO 4406 (c) >20/18/15 23/21/15 22/20/14 19/17/13	Silicon	ppm	ASTM D5185m	>15	0	<1	0
Water % ASTM D6304 >0.01 0.002 0.003 0.008 ppm Water ppm ASTM D6304 >100 21 30 80.9 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 ▲ 45676 ▲ 30083 4787 Particles >6µm ASTM D7647 >2500 ▲ 11312 ▲ 6417 1147 Particles >14µm ASTM D7647 >320 264 144 45 Particles >14µm ASTM D7647 >20 1 0 1 Particles >21µm ASTM D7647 >20 1 0 1 Particles >38µm ASTM D7647 >20 1 0 1 Particles >71µm ASTM D7647 >4 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 23/21/15 22/20/14 19/17/13 FLUID DEGRADATION method limit/base current history1 history2	Sodium	ppm	ASTM D5185m		1	0	<1
ppm Water ppm ASTM D6304 >100 21 30 80.9 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 45676 30083 4787 Particles >6µm ASTM D7647 >2500 11312 6417 1147 Particles >6µm ASTM D7647 >320 264 144 45 Particles >14µm ASTM D7647 >80 36 20 10 Particles >21µm ASTM D7647 >20 1 0 1 Particles >38µm ASTM D7647 >20 1 0 1 Particles >71µm ASTM D7647 >4 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 23/21/15 22/20/14 19/17/13 FLUID DEGRADATION method Imit/base current history1 history2	Potassium	ppm	ASTM D5185m	>20	0	0	0
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 ▲ 45676 ▲ 30083 4787 Particles >6µm ASTM D7647 >2500 ▲ 11312 ▲ 6417 1147 Particles >6µm ASTM D7647 >320 264 144 45 Particles >14µm ASTM D7647 >320 264 144 45 Particles >21µm ASTM D7647 >80 36 20 10 Particles >38µm ASTM D7647 >20 1 0 1 Particles >71µm ASTM D7647 >4 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 23/21/15 22/20/14 19/17/13 FLUID DEGRADATION method limit/base current history1 history2	Water	%	ASTM D6304	>0.01	0.002	0.003	0.008
Particles >4μm ASTM D7647 >10000 45676 30083 4787 Particles >6μm ASTM D7647 >2500 11312 6417 1147 Particles >14μm ASTM D7647 >320 264 144 45 Particles >14μm ASTM D7647 >80 36 20 10 Particles >21μm ASTM D7647 >20 1 0 1 Particles >38μm ASTM D7647 >20 1 0 1 Particles >71μm ASTM D7647 >4 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 23/21/15 22/20/14 19/17/13 FLUID DEGRADATION method limit/base current history1 history2	ppm Water	ppm	ASTM D6304	>100	21	30	80.9
Particles >6µm ASTM D7647 >2500 ▲ 11312 ▲ 6417 1147 Particles >14µm ASTM D7647 >320 264 144 45 Particles >21µm ASTM D7647 >80 36 20 10 Particles >38µm ASTM D7647 >20 1 0 1 Particles >38µm ASTM D7647 >20 1 0 1 Particles >71µm ASTM D7647 >4 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 23/21/15 22/20/14 19/17/13 FLUID DEGRADATION method limit/base current history1 history2	FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
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Particles >21μm ASTM D7647 >80 36 20 10 Particles >38μm ASTM D7647 >20 1 0 1 Particles >38μm ASTM D7647 >20 1 0 1 Particles >71μm ASTM D7647 >4 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 23/21/15 22/20/14 19/17/13 FLUID DEGRADATION method limit/base current history1 history2	Particles >6µm		ASTM D7647	>2500	<u> </u>	6 417	1147
Particles >38μm ASTM D7647 >20 1 0 1 Particles >71μm ASTM D7647 >4 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 23/21/15 22/20/14 19/17/13 FLUID DEGRADATION method limit/base current history1 history2	Particles >14µm		ASTM D7647	>320	264	144	45
Particles >71μm ASTM D7647 >4 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 23/21/15 22/20/14 19/17/13 FLUID DEGRADATION method limit/base current history1 history2	Particles >21µm		ASTM D7647	>80	36	20	10
Oil Cleanliness ISO 4406 (c) >20/18/15 23/21/15 22/20/14 19/17/13 FLUID DEGRADATION method limit/base current history1 history2	Particles >38µm		ASTM D7647	>20	1	0	1
Oil CleanlinessISO 4406 (c)>20/18/1523/21/1522/20/1419/17/13FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Particles >71µm		ASTM D7647	>4	0	0	0
	Oil Cleanliness		ISO 4406 (c)	>20/18/15	23/21/15	▲ 22/20/14	19/17/13
Acid Number (AN) mg KOH/g ASTM D974 0.005 0.013 0.012 0.013	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.013	0.012	0.013

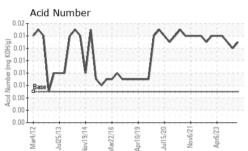
Contact/Location: RUSSEL SCOTT - TYSVER Page 1 of 2

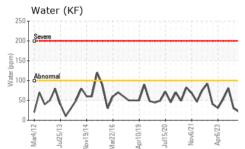


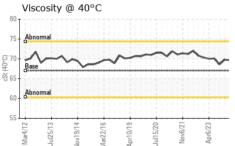
OIL ANALYSIS REPORT





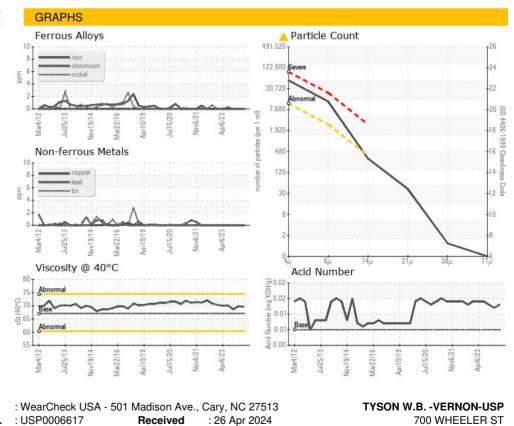






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	67	69.6	69.8	68.6
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						A MARK

Bottom



: 30 Apr 2024

: 30 Apr 2024 - Doug Bogart



Laboratory : WearCheo Sample No. : USP0006 Lab Number : 06161563 Unique Number : 10996986 Test Package : IND 2

Certificate 12367 Test Package : IND 2 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)

Tested

Diagnosed

T: (940)553-2747 F: (940)552-2196

Contact: RUSSEL SCOTT

VERNON, TX

US 76384

Report Id: TYSVER [WUSCAR] 06161563 (Generated: 05/04/2024 05:37:59) Rev: 1

Contact/Location: RUSSEL SCOTT - TYSVER