

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

FRICK TYSMON 7 HS (S/N GDSH233500195)

Refrigeration Compressor

USPI ALT-68 SC (--- GAL)

DIAGNOSIS

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

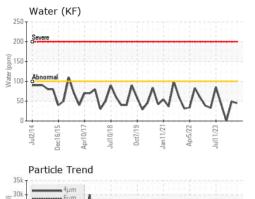
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

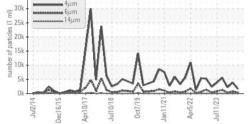
Sample Number Client Info USP0012350 USP0011004 USP0005085 Sample Date Client Info 09 Jul 2024 22 Apr 2024 09 Jan 2024 Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A Sample Status method imit/base current history1 history1 Iron ppm ASTM 05165n >8 2 <1 0 Chromium ppm ASTM 05165n >2 0 0 0 Silver ppm ASTM 05165n >2 0 0 0 Capper ppm ASTM 05165n >2 0 0 0 Vanadium ppm ASTM 05165n >2 0 0 0 Capper ppm ASTM 05165n >4 0 0 0 Vanadium ppm AS	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 147323 145576 143351 Oil Age hrs Client Info 0 0 0 Oil Age Krs Client Info N/A N/A N/A Sample Status method Imit/base current history1 history2 Iron ppm ASTM D5185m >8 2 <1 0 Nickel ppm ASTM D5185m >2 0 0 0 Titanium ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Cadmium ppm ASTM D5185m >2 0 0 0 Cadmium ppm ASTM D5185m >4 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 1 0 Ran	Sample Number		Client Info		USP0012350	USP0011004	USP0005085
Oil Age Inrs Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A N/A Sample Status method imit/base current history1 history2 Iron ppm ASTM D5165m >8 2 <1 0 Chromium ppm ASTM D5165m >2 0 0 0 Nickel ppm ASTM D5165m >2 0 0 0 Silver ppm ASTM D5165m >2 0 0 0 Auminum ppm ASTM D5165m >3 12 14 13 Lead ppm ASTM D5165m >3 0 0 0 Capper ppm ASTM D5165m >4 0 0 0 Cadmium ppm ASTM D5165m 0 0 0 0 Cadmium ppm ASTM D5165m 0 0 0 0 <t< th=""><th>Sample Date</th><th></th><th>Client Info</th><th></th><th>09 Jul 2024</th><th>22 Apr 2024</th><th>09 Jan 2024</th></t<>	Sample Date		Client Info		09 Jul 2024	22 Apr 2024	09 Jan 2024
Oil Changed Client Info N/A N/A N/A N/A Sample Status method limit/base current history1 history2 Iron ppm ASTM D5185m >8 2 <1	Machine Age	hrs	Client Info		147323	145576	143351
Sample Status method imit/base current history1 history2 Iron ppm ASTM D5185m >8 2 <1 0 Nickel ppm ASTM D5185m >2 0 0 0 Nickel ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >2 0 0 0 0 Copper ppm ASTM D5185m >2 0 0 0 0 Cadmium ppm ASTM D5185m S4 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 0 0 Barium ppm ASTM D5185m 0 0 <1 0 2 Phosphorus ppm <t< th=""><th>Oil Age</th><th>hrs</th><th>Client Info</th><th></th><th>0</th><th>0</th><th>0</th></t<>	Oil Age	hrs	Client Info		0	0	0
WEAR METALS method imit/base current history1 history2 Iron ppm ASTM D5185m >8 2 <1 0 Ohromium ppm ASTM D5185m 2 0 0 0 Nickel ppm ASTM D5185m 2 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >2 0 0 0 Copper ppm ASTM D5185m >2 0 0 0 Vanadium ppm ASTM D5185m 2 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Roron ppm ASTM D5185m 0 0 0 1 Maganese ppm ASTM D5185m 0 0 2	Oil Changed		Client Info		N/A	N/A	N/A
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Titanium ppm ASTM 05185m 0 0 0 0 Silver ppm ASTM 05185m >2 0 0 0 Aluminum ppm ASTM 05185m >3 12 14 13 Lead ppm ASTM 05185m >2 0 0 0 Copper ppm ASTM 05185m >2 0 0 0 Copper ppm ASTM 05185m >4 0 0 0 Vanadium ppm ASTM 05185m 0 0 0 0 Cadmium ppm ASTM 05185m 0 0 0 0 Boron ppm ASTM 05185m 0 0 0 0 Magnaese ppm ASTM 05185m 0 0 0 1 Magnaese ppm ASTM 05185m 0 0 3 3 Sulfur ppm ASTM 05185m <1 0 0 3 <th>Chromium</th> <th>ppm</th> <th>ASTM D5185m</th> <th>>2</th> <th>0</th> <th>0</th> <th>0</th>	Chromium	ppm	ASTM D5185m	>2	0	0	0
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Lead ppm ASTM D5185m >2 0 0 0 Copper ppm ASTM D5185m >8 0 0 1 Tin ppm ASTM D5185m >4 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Marganese ppm ASTM D5185m 0 0 <1 1 Magnesium ppm ASTM D5185m 0 0 <1 1 Calcium ppm ASTM D5185m 1 0 0 2 Phosphorus ppm ASTM D5185m 1 0 0 2 Sliforn ppm ASTM D5185m 1 0 0	Silver	ppm	ASTM D5185m	>2	0	0	0
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Copper ppm ASTM D5185m >8 0 0 1 Tin ppm ASTM D5185m >4 0 0 0 Cadmium ppm ASTM D5185m 0 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 Malgaesium ppm ASTM D5185m 0 0 0 1 Magnesium ppm ASTM D5185m 0 0 <1 2 Phosphorus ppm ASTM D5185m 0 0 3 3 Sulfur ppm ASTM D5185m 106 117 106 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 1 <1 0	Lead		ASTM D5185m	>2	0	0	0
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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 <1 Magnesium ppm ASTM D5185m 0 0 <1 Calcium ppm ASTM D5185m 0 0 <1 Calcium ppm ASTM D5185m 1 0 0 Zinc ppm ASTM D5185m 50 106 117 106 Zinc ppm ASTM D5185m 50 106 117 106 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 <1 1 0 Sodium ppm ASTM D5185m >20 <1 0 0 Pattassium ppm ASTM D5185m >20	Cadmium				0	0	0
Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 <1 Magnesium ppm ASTM D5185m 0 0 <1 0 <1 Magnesium ppm ASTM D5185m 0 0 <1 0 2 Calcium ppm ASTM D5185m 1 0 0 3 Phosphorus ppm ASTM D5185m 0 0 3 3 Sulfur ppm ASTM D5185m 50 106 117 106 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 <1 <1 0 0 Sodium ppm ASTM D5185m >20 <1 0 0 0 Vater % ASTM D5185m >20 <1 0 0 0 Particles >4µm	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0 0 <1 Magnesium ppm ASTM D5185m 0 0 <1 Calcium ppm ASTM D5185m 1 0 2 Phosphorus ppm ASTM D5185m 1 0 0 Zinc ppm ASTM D5185m 0 0 3 Sulfur ppm ASTM D5185m 0 0 3 Sulfur ppm ASTM D5185m 50 106 117 106 CONTAMINANTS method imit/base current history1 history2 Silicon ppm ASTM D5185m <1 <1 0 0 Sodium ppm ASTM D5185m <20 <1 0 0 Vater % ASTM D6304 >0.01 0.004 0.004 0.001 pm Water ppm ASTM D7647 <th>Boron</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Boron	ppm	ASTM D5185m		0	0	0
Marganese ppm ASTM D5185m 0 0 <1	Barium	ppm	ASTM D5185m		0	0	0
Magnesium ppm ASTM D5185m 0 <1	Molybdenum	ppm	ASTM D5185m		0	0	0
Magnesium ppm ASTM D5185m 0 0 <1	Manganese	ppm	ASTM D5185m		0	0	<1
Calcium ppm ASTM D5185m <1	-	ppm	ASTM D5185m		0	0	<1
Zinc ppm ASTM D5185m 0 0 3 Sulfur ppm ASTM D5185m 50 106 117 106 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 <1 <1 0 Sodium ppm ASTM D5185m >15 <1 0 0 Potassium ppm ASTM D5185m >20 <1 0 0 Vater % ASTM D5185m >20 <1 0 0 Water % ASTM D5045 >0.01 0.004 0.001 0.004 0.001 ppm Water ppm ASTM D7647 1614 3866 2205 Particles >4µm ASTM D7647 >2500 343 723 325 Particles >6µm ASTM D7647 >20 343 723 5 5 Particles >14µm ASTM D7647 >80 2 5 5	Calcium	ppm	ASTM D5185m		<1	0	2
Zinc ppm ASTM D5185m 0 0 0 3 Sulfur ppm ASTM D5185m 50 106 117 106 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 <1 <1 0 0 Sodium ppm ASTM D5185m >15 <1 0 0 0 Potassium ppm ASTM D5185m >20 <1 0 0 0 Water % ASTM D5185m >20 <1 0 0 0 ppm Water ppm ASTM D6304 >0.01 0.004 0.004 0.001 particles >4µm ASTM D7647 1614 3866 2205 Particles >4µm ASTM D7647 >2500 343 723 325 Particles >4µm ASTM D7647 >320 14 26 15 Particles >21µm ASTM D7647 >20	Phosphorus	ppm	ASTM D5185m		1	0	0
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 <1 <1 0 0 Sodium ppm ASTM D5185m >15 <1 0 0 0 Potassium ppm ASTM D5185m >20 <1 0 0 0 Water % ASTM D50804 >0.01 0.004 0.004 0.001 ppm Water ppm ASTM D6304 >100 45 49 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 1614 3866 2205 Particles >6µm ASTM D7647 >2500 343 723 325 Particles >6µm ASTM D7647 >80 2 5 5 Particles >38µm ASTM D7647 >80 2 5 5 Particles >71µm ASTM D7647 20 0 0			ASTM D5185m		0	0	3
Silicon ppm ASTM D5185m >15 <1	Sulfur	ppm	ASTM D5185m	50	106	117	106
Sodium ppm ASTM D5185m <1	CONTAMINANTS	;	method	limit/base	current	history1	history2
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Water % ASTM D6304 >0.01 0.004 0.004 0.001 ppm Water ppm ASTM D6304 >100 45 49 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 1614 3866 2205 Particles >6µm ASTM D7647 >2500 343 723 325 Particles >6µm ASTM D7647 >320 14 26 15 Particles >21µm ASTM D7647 >80 2 5 5 Particles >38µm ASTM D7647 >20 0 0 0 Particles >71µm ASTM D7647 >4 0 0 0 Oil Cleanliness ISO 4406 (c) >/18/15 18/16/11 19/17/12 18/16/11 FLUID DEGRADATION method limit/base current history1 history2	Sodium	ppm	ASTM D5185m		<1	0	0
ppm Water ppm ASTM D6304 >100 45 49 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 1614 3866 2205 Particles >6µm ASTM D7647 >2500 343 723 325 Particles >14µm ASTM D7647 >320 14 26 15 Particles >21µm ASTM D7647 >80 2 5 5 Particles >21µm ASTM D7647 >20 0 0 0 Particles >71µm ASTM D7647 >4 0 0 0 Oil Cleanliness ISO 4406 (c) >/18/15 18/16/11 19/17/12 18/16/11 FLUID DEGRADATION method limit/base current history1 history2	Potassium	ppm	ASTM D5185m	>20	<1	0	0
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 1614 3866 2205 Particles >6µm ASTM D7647 1614 3866 2205 Particles >6µm ASTM D7647 >2500 343 723 325 Particles >14µm ASTM D7647 >320 14 26 15 Particles >21µm ASTM D7647 >80 2 5 5 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) >/18/15 18/16/11 19/17/12 18/16/11 FLUID DEGRADATION method limit/base current history1 history2	Water	%	ASTM D6304	>0.01	0.004	0.004	0.001
Particles >4μm ASTM D7647 1614 3866 2205 Particles >6μm ASTM D7647 >2500 343 723 325 Particles >14μm ASTM D7647 >320 14 26 15 Particles >21μm ASTM D7647 >80 2 5 5 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) >/18/15 18/16/11 19/17/12 18/16/11 FLUID DEGRADATION method limit/base current history1 history2	ppm Water	ppm	ASTM D6304	>100	45	49	0
Particles >6µm ASTM D7647 >2500 343 723 325 Particles >14µm ASTM D7647 >320 14 26 15 Particles >21µm ASTM D7647 >80 2 5 5 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) >/18/15 18/16/11 19/17/12 18/16/11	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
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Particles >21μm ASTM D7647 >80 2 5 5 Particles >38μm ASTM D7647 >20 0 0 0 Particles >371μm ASTM D7647 >4 0 0 0 Oil Cleanliness ISO 4406 (c) >/18/15 18/16/11 19/17/12 18/16/11 FLUID DEGRADATION method limit/base current history1 history2				>2500	343	723	325
Particles >38μm ASTM D7647 >20 0 0 0 Particles >71μm ASTM D7647 >4 0 0 0 0 Oil Cleanliness ISO 4406 (c) >/18/15 18/16/11 19/17/12 18/16/11 FLUID DEGRADATION method limit/base current history1 history2							
Particles >71µm ASTM D7647 >4 0 0 0 Oil Cleanliness ISO 4406 (c) >/18/15 18/16/11 19/17/12 18/16/11 FLUID DEGRADATION method limit/base current history1 history2				>80		5	
Oil Cleanliness ISO 4406 (c) >/18/15 18/16/11 19/17/12 18/16/11 FLUID DEGRADATION method limit/base current history1 history2			ASTM D7647	>20		0	0
FLUID DEGRADATION method limit/base current history1 history2			ASTM D7647	>4		0	
	Oil Cleanliness		ISO 4406 (c)	>/18/15	18/16/11	19/17/12	18/16/11
Acid Number (AN) mg KOH/g ASTM D974 0.005 0.014 0.015 0.014	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.015	0.014

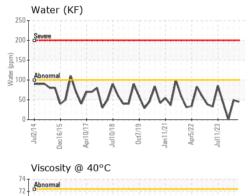
Contact/Location: BRUCE CHANDLER - TYSMONMO

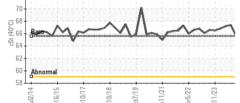


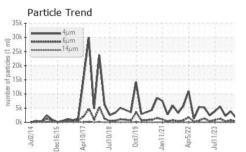
OIL ANALYSIS REPORT



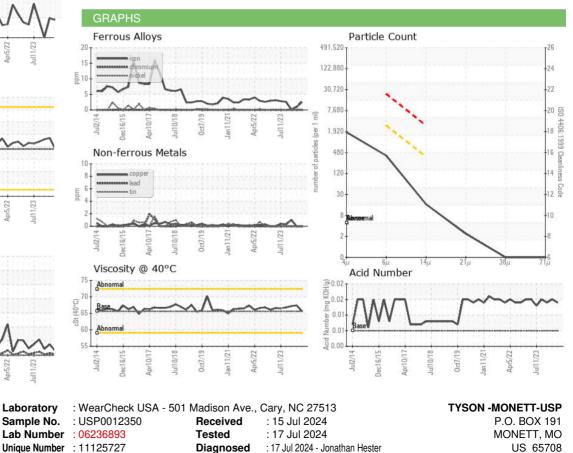








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	65.6	65.7	67.4	67.2
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						
Bottom				60)		





Unique Number : 11125727 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)

T: (417)235-3104 F: (417)235-9392

Contact: BRUCE CHANDLER

Report Id: TYSMONMO [WUSCAR] 06236893 (Generated: 07/17/2024 15:06:03) Rev: 1

Contact/Location: BRUCE CHANDLER - TYSMONMO