

OIL ANALYSIS REPORT

NORMAL

Machine Id

C-1 (S/N S0296JFMFTHAA3)

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 oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

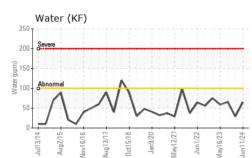
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

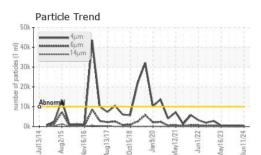
· · · · · · · · · · · · · · · · · · ·	SAMPLE INFORM	NATION	method	limit/base	current	history1	history2	
Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info N/A N/A N/A Sample Status Client Info N/A N/A N/A N/A VeAR METALS method limi/base current history1 history2 Iron ppm ASTM D5165m >8 0 <1	Sample Number		Client Info		USP0013418	USP0003755	USP0000645	
Oil Age Inrs Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A N/A Sample Status Client Info Initional NORMAL NORMAL NORMAL WEAR METALS method imit/base current history1 history2 Iron ppm ASTM D5185m >8 0 <1 0 Chromium ppm ASTM D5185m >2 0 <1 0 Nickel ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >2 0 0 0 Copper ppm ASTM D5185m >2 0 0 0 Cadmium ppm ASTM D5185m >4 0 0 0 ASTM D5185m 0 <1 0 0 0 0 Cadmium ppm ASTM D5185m 0 <1 0 0	Sample Date		Client Info		11 Jun 2024	23 Nov 2023	16 Aug 2023	
Oil Changed Sample Status Client Info N/A N/A N/A N/A WEAR METALS method imit/base current history1 history2 Iron ppm ASTM D5185m >8 0 <1	Machine Age	hrs	Client Info		0	0	0	
Sample Status method imit/base current history1 history2 Iron ppm ASTM D5185m >8 0 <1	Oil Age	hrs	Client Info		0	0	0	
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5165m >2 0 <1	Oil Changed		Client Info		N/A	N/A	N/A	
Iron ppm ASTM D5185m >8 0 <1	Sample Status				NORMAL	NORMAL	NORMAL	
Chromium ppm ASTM D5185m >2 0 <1	WEAR METALS		method	limit/base	current	history1	history2	
Nickel ppm ASTM D5185m 0 <1 0 Titanium ppm ASTM D5185m 2 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >2 0 0 0 Lead ppm ASTM D5185m >2 0 0 0 Copper ppm ASTM D5185m >4 0 0 0 Cadmium ppm ASTM D5185m >4 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 -1 0 0 Magnesium ppm ASTM D5185m 0 -1 0 0 Calcium ppm ASTM D5185m 0 0 0 0 0	Iron	ppm	ASTM D5185m	>8	0	<1	0	
Titanium ppm ASTM D5185m 0 <1 <1 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >3 0 1 <1	Chromium	ppm	ASTM D5185m	>2	0	<1	0	
Titanium ppm ASTM D5185m 0 <1 <1 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >2 0 0 0 Lead ppm ASTM D5185m >2 0 0 0 Copper ppm ASTM D5185m >2 0 0 0 Copper ppm ASTM D5185m >4 0 0 0 Vanadium ppm ASTM D5185m 4 0 0 0 Cadmium ppm ASTM D5185m 0 <1	Nickel		ASTM D5185m		0	<1	0	
Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >3 0 1 <1	Titanium		ASTM D5185m				<1	
Aluminum ppm ASTM D5185m >3 0 1 <1 Lead ppm ASTM D5185m >2 0 0 0 Copper ppm ASTM D5185m >8 0 <1				>2	-			
Lead ppm ASTM D5185m >2 0 0 0 Copper ppm ASTM D5185m >8 0 <1								
Copper ppm ASTM D5185m >8 0 <1 0 Tin ppm ASTM D5185m >4 0 0 0 Vanadium ppm ASTM D5185m 1 0 <1	<1							
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Manganese ppm ASTM D5185m 0 <1 0 Magnesium ppm ASTM D5185m 0 <1	Barium	ppm	ASTM D5185m		0	0	0	
Magnesium ppm ASTM D5185m 0 <1 0 Calcium ppm ASTM D5185m 0 1 0 Phosphorus ppm ASTM D5185m 0 0 1 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 50 0 0 0 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 <1	Molybdenum	ppm	ASTM D5185m		0	<1	0	
Calcium ppm ASTM D5185m 0 1 0 Phosphorus ppm ASTM D5185m 0 0 1 Zinc ppm ASTM D5185m 0 0 0 Sulfur ppm ASTM D5185m 50 0 0 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 50 0 0 0 <1	Manganese	ppm	ASTM D5185m		0	0	<1	
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Silicon ppm ASTM D5185m >15 <1	Sulfur		ASTM D5185m	50	0	0	0	
Sodium ppm ASTM D5185m 0 0 <1	CONTAMINANTS	;	method	limit/base	current	history1	history2	
Potassium ppm ASTM D5185m >20 <1 <1 1 Water % ASTM D6304 >0.01 0.006 0.003 0.006 ppm ASTM D6304 >100 65 29 65.5 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 331 329 544 Particles >6µm ASTM D7647 >2500 82 84 169 Particles >14µm ASTM D7647 >320 9 7 17 Particles >14µm ASTM D7647 >20 0 1 2 5 Particles >21µm ASTM D7647 >20 0 1 2 5 Particles >38µm ASTM D7647 >20 0 0 1 Particles >71µm ASTM D7647 >4 0 0 0 Oil Cleanliness ISO 4406 (c) >201/18/15 16/14/10 16/15/11 FLUID DEGR	Silicon	ppm	ASTM D5185m	>15	<1	<1	<1	
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Particles >4µm ASTM D7647 >10000 331 329 544 Particles >6µm ASTM D7647 >2500 82 84 169 Particles >14µm ASTM D7647 >320 9 7 17 Particles >21µm ASTM D7647 >80 1 2 5 Particles >21µm ASTM D7647 >20 0 0 1 Particles >38µm ASTM D7647 >20 0 0 1 Particles >71µm ASTM D7647 >4 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 16/14/10 16/15/11 FLUID DEGRADATION method limit/base current history1 history2	ppm Water	ppm	ASTM D6304	>100	65	29	65.5	
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Particles >38μm ASTM D7647 >20 0 0 1 Particles >71μm ASTM D7647 >4 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 16/14/10 16/14/10 16/15/11 FLUID DEGRADATION method limit/base current history1 history2	Particles >14µm		ASTM D7647	>320	9	7	17	
Particles >71μm ASTM D7647 >4 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 16/14/10 16/14/10 16/15/11 FLUID DEGRADATION method limit/base current history1 history2	Particles >21µm		ASTM D7647	>80	1	2	5	
Oil Cleanliness ISO 4406 (c) >20/18/15 16/14/10 16/14/10 16/15/11 FLUID DEGRADATION method limit/base current history1 history2	Particles >38µm		ASTM D7647	>20	0	0	1	
Oil Cleanliness ISO 4406 (c) >20/18/15 16/14/10 16/14/10 16/15/11 FLUID DEGRADATION method limit/base current history1 history2	Particles >71µm		ASTM D7647	>4	0	0	0	
					16/14/10	16/14/10	16/15/11	
	FLUID DEGRADA		method	limit/base	current	history1	history2	
	Acid Number (AN)	mg KOH/g			0.014			

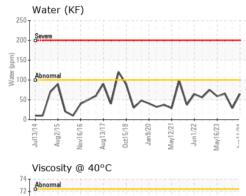
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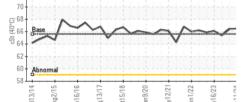


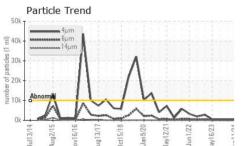
OIL ANALYSIS REPORT

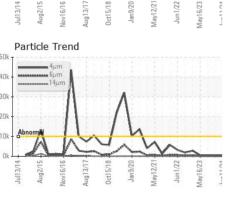






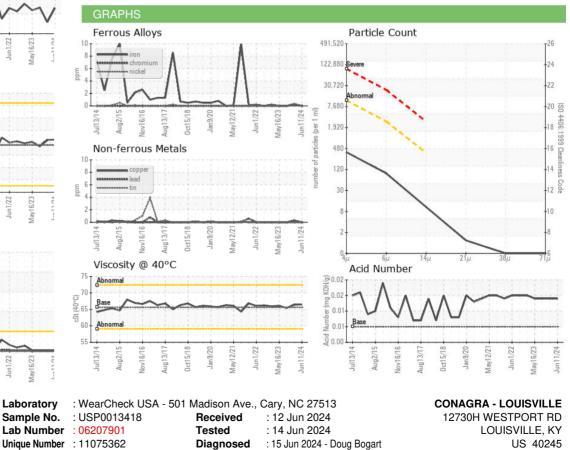








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	66.5	66.4	65.4
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color					•	
Bottom				6	6	



* - 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:

F:

Contact: SCOTT CASTILLO

Report Id: CAGLOU [WUSCAR] 06207901 (Generated: 06/15/2024 17:51:53) Rev: 1

Certificate 12367

Test Package : IND 2

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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