

OIL ANALYSIS REPORT

Sample Rating Trend

VIS DEBRIS

Machine Id FRICK TYSCHI RC 4 (S/N S065BPEMPTHAC03)

Refrigeration Compressor

USPI ALT-68 SC (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris 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 INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0015026	USP216504	USP208272
Sample Date		Client Info		17 Jul 2024	02 Nov 2020	25 May 2020
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				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	<1	<1
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	<1
Lead	ppm	ASTM D5185m	>2	0	0	<1
Copper	ppm	ASTM D5185m		0	0	0
Tin	ppm	ASTM D5185m	>0 >4	0	0	0
Antimony	ppm	ASTM D5185m	27		0	0
Vanadium		ASTM D5185m		0	0	0
	ppm			0	0	
Cadmium	ppm	ASTM D5185m		U	-	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	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	1	0
Zinc	ppm	ASTM D5185m		0	0	2
Sulfur	ppm	ASTM D5185m	50	0	57	16
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	1
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	4
Water	%	ASTM D6304	>0.01	0.001	0.004	0.009
ppm Water	ppm	ASTM D6304		2	42.9	96.6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647			97356	8621
Particles >6µm		ASTM D7647	>2500		▲ 32861	1758
Particles >14µm		ASTM D7647	>320		▲ 1838	46
Particles >21µm		ASTM D7647			▲ 326	6
Particles >38µm		ASTM D7647	>20		2	0
Particles >71µm		ASTM D7647			0	0
Oil Cleanliness		ISO 4406 (c)	>/18/15		▲ 24/22/18	20/18/13
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014		

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Contact/Location: SERVICE MANAGER - TYSCHI



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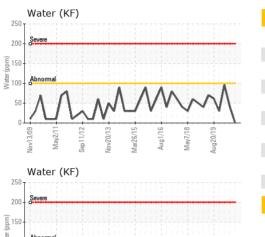
60 - Abnorma

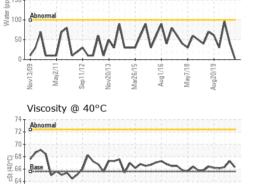
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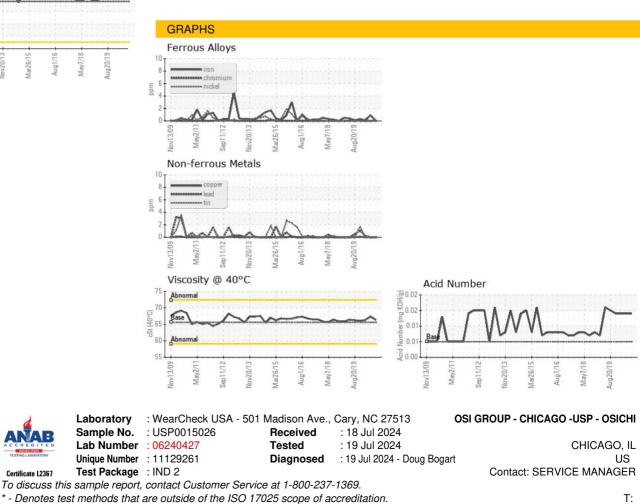
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	A MODER	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 PROPER	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	65.6	66.3	67.3	66.3
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					C1 1700 33 109	
Detterre					1 mg	1 Can

Bottom



 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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