

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

FRICK TYSCUM1-16 FRK (S/N TDSH233L2509F)

Refrigeration Compressor

USPI ALT-68 SC (--- QTS)

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

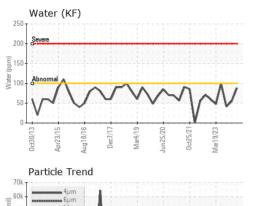
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

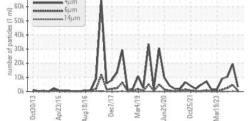
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0012406	USP0006886	USP0002704
Sample Date		Client Info		09 Jun 2024	15 Feb 2024	23 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	4	4	6
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m	r	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum		ASTM D5185m	>3	0	0	0
	ppm	ASTM D5185m		-	÷	
Lead	ppm		>2	0	<1	0
Copper	ppm	ASTM D5185m	>8	0	0	0
Tin	ppm	ASTM D5185m	>4	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		0	1	0
Calcium	ppm	ASTM D5185m		3	0	0
Phosphorus	ppm	ASTM D5185m		0	0	<1
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	38	38	35
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	<1	1
Sodium	ppm	ASTM D5185m		1	<1	0
Potassium	ppm	ASTM D5185m	>20	2	1	<1
Water	%	ASTM D6304	>0.01	0.008	0.005	0.004
ppm Water	ppm	ASTM D6304	>100	88	55	41.2
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		3280	19521	10409
Particles >6µm		ASTM D7647	>2500	608	651	2583
Particles >14µm		ASTM D7647	>320	15	216	78
Particles >21µm		ASTM D7647	>80	3	40	12
Particles >38µm		ASTM D7647	>20	1	1	1
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/18/15	19/16/11	21/19/15	21/19/13
On Oleanniness						
FLUID DEGRADA		method	limit/base	current	history1	history2

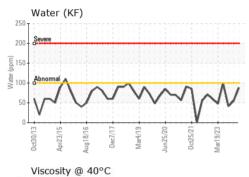
Contact/Location: BRENT SMITH - TYSCUMGA

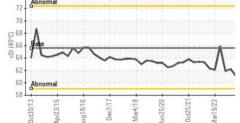


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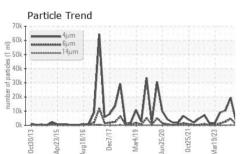




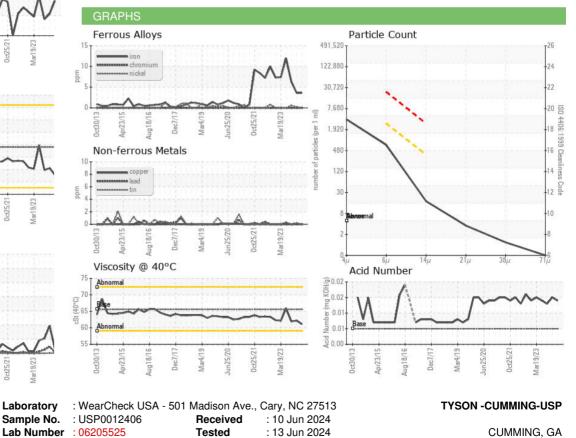




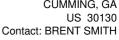
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	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	61.1	62.2	61.9
SAMPLE IMAGES	5	method	limit/base	current	history1	history2
Color				•	•	
Bottom						



: 13 Jun 2024 - Doug Bogart



T: (402)423-6375

Test Package : IND 2 To discuss this sample report, contact Customer Service at 1-800-237-1369.

Unique Number : 11072986

* - 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)

Diagnosed

F: (402)423-6661 Contact/Location: BRENT SMITH - TYSCUMGA

Report Id: TYSCUMGA [WUSCAR] 06205525 (Generated: 06/15/2024 07:48:19) Rev: 1

Certificate 12367