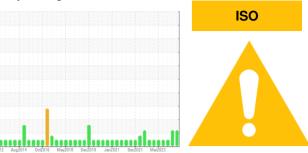


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

FRICK TYSCEN HS-10 (S/N TDSH163L1779B)

Refrigeration Compressor

USPI ALT-68 SC (70 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

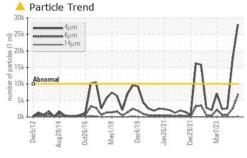
Fluid Condition

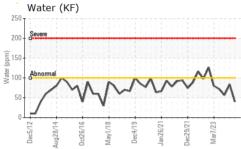
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

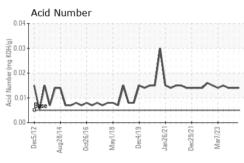
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0006599	USP239755	USP239758
Sample Date		Client Info		18 Apr 2024	03 Nov 2023	10 Aug 2023
Machine Age	hrs	Client Info		65496	64952	64370
Oil Age	hrs	Client Info		65496	64952	64370
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	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		0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	0	0	0
Tin	ppm	ASTM D5185m	>4	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
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		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		0	0	<1
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	0	0	9
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	1	1
Sodium	ppm	ASTM D5185m		1	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>0.01	0.003	0.008	0.005
ppm Water	ppm	ASTM D6304	- 100		00.4	56.7
			>100	40	83.4	30.7
FLUID CLEANLIN		method	limit/base	40 current	83.4 history1	history2
Particles >4μm		method	limit/base	current	history1	history2
Particles >4μm Particles >6μm		method ASTM D7647	limit/base >10000	current △ 27990	history1 17619	history2 2609
Particles >4μm Particles >6μm Particles >14μm		method ASTM D7647 ASTM D7647	limit/base >10000 >2500	current △ 27990 △ 6714	history1 17619 2601	history2 2609 569
Particles >4μm Particles >6μm Particles >14μm Particles >21μm		method ASTM D7647 ASTM D7647 ASTM D7647	limit/base >10000 >2500 >320	current ▲ 27990 ▲ 6714 104	history1 17619 2601 26	history2 2609 569 25
FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm		method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base	current 27990 6714 104 10	history1 17619 2601 26 4	history2 2609 569 25 6
Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm		method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >10000 >2500 >320 >80 >20	current 27990 6714 104 10 0	history1 17619 2601 26 4 0	history2 2609 569 25 6 0
Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	IESS	method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >10000 >2500 >320 >80 >20 >4	current 27990 6714 104 10 0	history1 17619 2601 26 4 0 0	history2 2609 569 25 6 0

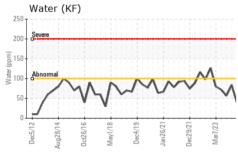


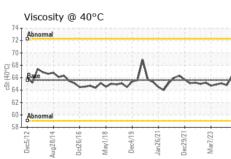
OIL ANALYSIS REPORT









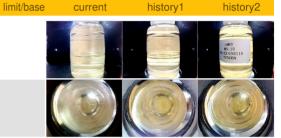


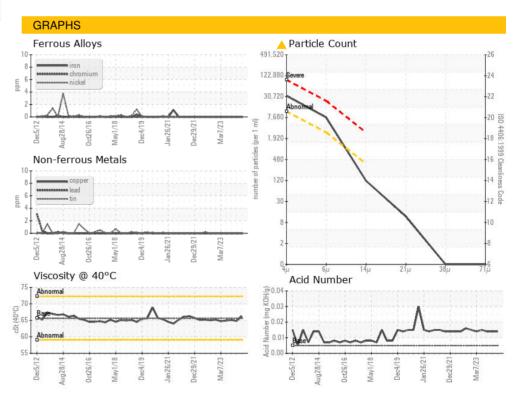
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	TES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	65.6	66.2	64.8	65.1

Color **Bottom**

method

SAMPLE IMAGES









Certificate 12367

Laboratory Sample No. Lab Number : 06161573

: USP0006599

Unique Number : 10996996

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Apr 2024 **Tested** : 30 Apr 2024

Diagnosed

: 30 Apr 2024 - Doug Bogart

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)

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TYSON -CENTER-USP

Contact: PAT HART

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CENTER, TX

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