

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

FRICK HS20 1077 (S/N TDSH233L1B12F)

Refrigeration Compressor

USPI 1009-68 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.

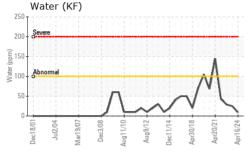
Fluid Condition

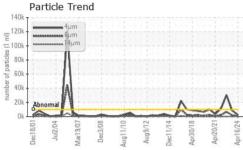
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

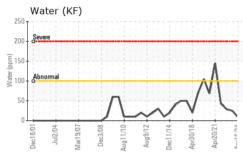
e2001 Ju2004 Mar2007 Dec2008 Aug2010 Aug2012 Dec2014 Apr2018 Apr2021 Apr20									
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		USP0006503	USP0003400	USP248357			
Sample Date		Client Info		16 Apr 2024	02 Nov 2023	19 May 2023			
Machine Age	hrs	Client Info		103305	10113	98752			
Oil Age	hrs	Client Info		0	0	0			
Oil Changed		Client Info		N/A	N/A	N/A			
Sample Status				NORMAL	NORMAL	ABNORMAL			
WEAR METALS		method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>8	<1	0	0			
Chromium	ppm	ASTM D5185m	>2	<1	<1	0			
Nickel	ppm	ASTM D5185m		<1	0	0			
Titanium	ppm	ASTM D5185m		<1	0	0			
Silver	ppm	ASTM D5185m	>2	0	0	0			
Aluminum	ppm	ASTM D5185m	>3	2	0	0			
Lead	ppm	ASTM D5185m	>2	0	0	0			
Copper	ppm	ASTM D5185m	>8	<1	0	<1			
Tin	ppm	ASTM D5185m	>4	<1	0	0			
Vanadium	ppm	ASTM D5185m		<1	<1	0			
Cadmium	ppm	ASTM D5185m		<1	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		<1	0	0			
Manganese	ppm	ASTM D5185m		0	0	0			
Magnesium	ppm	ASTM D5185m		<1	0	0			
Calcium	ppm	ASTM D5185m		<1	<1	0			
Phosphorus	ppm	ASTM D5185m		0	0	0			
Zinc	ppm	ASTM D5185m		0	0	0			
Sulfur	ppm	ASTM D5185m	50	0	0	2			
CONTAMINANTS		method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>15	<1	0	0			
Sodium	ppm	ASTM D5185m		<1	0	<1			
Potassium	ppm	ASTM D5185m	>20	1	<1	0			
Water	%	ASTM D6304	>0.01	0.001	0.002	0.003			
ppm Water	ppm	ASTM D6304	>100	9	24.9	28.9			
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2			
Particles >4µm		ASTM D7647	>10000	2452	8355	▲ 30303			
Particles >6µm		ASTM D7647	>2500	586	1808	<u></u> 6654			
Particles >14µm		ASTM D7647	>320	25	52	167			
Particles >21μm		ASTM D7647	>80	4	5	16			
Particles >38µm		ASTM D7647	>20	0	0	0			
Particles >71μm		ASTM D7647	>4	0	0	0			
Oil Cleanliness		ISO 4406 (c)	>20/18/15	18/16/12	20/18/13	△ 22/20/15			
FLUID DEGRADA	TION	method	limit/base	current	history1	history2			
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.014	0.015			

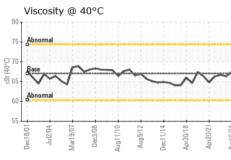


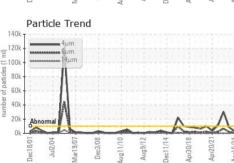
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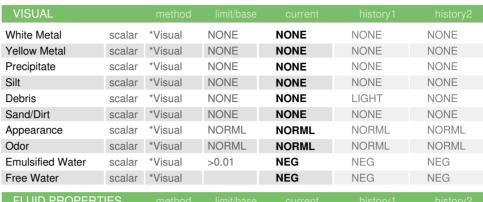












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Visc @ 40°C	cSt	ASTM D445	67	67.5	66.3	66.7

SAMPLE IMAGES

Color

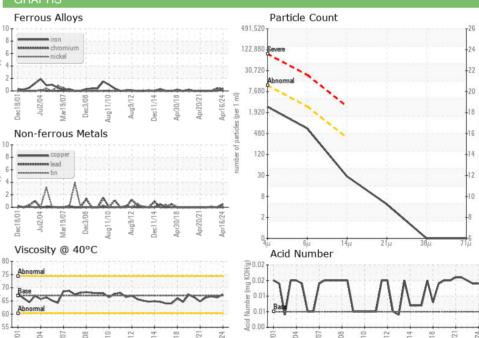
Bottom















Certificate 12367

Laboratory Sample No. Lab Number

: 06156035 Unique Number : 10991458 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : USP0006503

Received : 22 Apr 2024 **Tested** : 23 Apr 2024

Diagnosed : 24 Apr 2024 - Jonathan Hester

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

 st - 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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