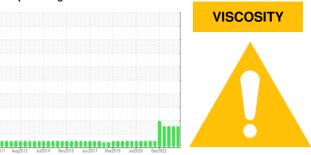


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

FES FES 2 (S/N 2552565)

Refrigeration Compressor

USPI 1009-68 SC (--- QTS)

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

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

Fluid Condition

The oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid.

n/2011 Aug/2012 Ju/2014 Nov/2015 Jun/2017 Mar/2019 Ju/2020 Dec/2022						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0006464	USP0007058	USP244588
Sample Date		Client Info		23 Apr 2024	07 Feb 2024	07 Nov 2023
Machine Age	hrs	Client Info		0	84108	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	5	<1	2
Chromium	ppm	ASTM D5185m	>2	<1	0	0
Nickel	ppm	ASTM D5185m		<1	<1	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	<1	0	0
Copper	ppm	ASTM D5185m	>8	<1	0	0
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES	ρρ	method	limit/base	current	history1	history2
	12 12 122		minu bacc			0
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		<1	0	0
Calcium	ppm	ASTM D5185m		0	<1	2
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		1	0	0
Sulfur	ppm	ASTM D5185m	50	0	22	14
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	0
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304	>0.01	0.008	0.003	0.004
ppm Water	ppm	ASTM D6304	>100	85	33	47.5
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	10509	<u>^</u> 22800	17648
Particles >6µm		ASTM D7647	>2500	3270	<u>▲</u> 6506	<u>▲</u> 5721
Particles >14µm		ASTM D7647	>320	134	206	230
Particles >21µm		ASTM D7647	>80	21	26	32
Particles >38µm		ASTM D7647	>20	0	0	1
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u>21/19/14</u>	<u>22/20/15</u>	1 21/20/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.015	0.012



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number

: 06159191 Unique Number : 10994614

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : USP0006464 Received : 24 Apr 2024 **Tested** : 25 Apr 2024

Diagnosed : 26 Apr 2024 - Jonathan Hester

Test Package : IND 2 Certificate 12367 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)

TYSON RF-DALLAS-USP

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