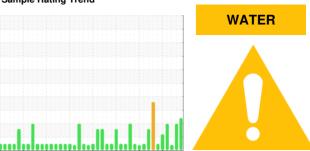


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

FES (GEA) FES 6 (S/N V-1328)

Refrigeration Compressor

USPI 1009-68 SC (--- QTS)

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

There is a trace of moisture present in the oil. Water value confirmed. There is a moderate amount of visible silt present in the sample.

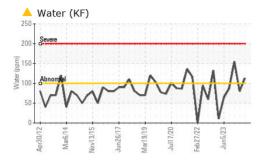
Fluid Condition

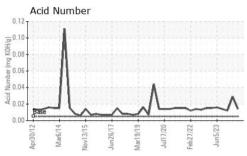
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

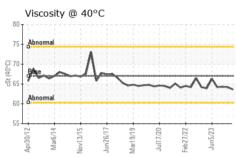
		r2012 Mar20	14 Nov2015 Jun2017	Mar2019 Jul2020 Feb2022 J	un2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0006459	USP0007061	USP244592
Sample Date		Client Info		23 Apr 2024	07 Feb 2024	07 Nov 2023
Machine Age	hrs	Client Info		0	102215	0
Oil Age	hrs	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	1	4	<1
Chromium	ppm	ASTM D5185m	>2	<1	0	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	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	<1	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		<1	<1	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		<1	0	0
Calcium	ppm	ASTM D5185m		0	<1	0
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	0	44	20
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	2	<1
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304	>0.01	<u> </u>	0.008	0.015
ppm Water	ppm	ASTM D6304	>100	<u> </u>	80	154.5
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>10000		<u>▲</u> 181134	
Particles >6µm		ASTM D7647	>2500		▲ 73005	
Particles >14µm		ASTM D7647	>320		<u>2277</u>	
Particles >21µm		ASTM D7647	>80		<u>^</u> 297	
Particles >38µm		ASTM D7647	>20		4	
Particles >71µm		ASTM D7647	>4		0	
Oil Cleanliness		ISO 4406 (c)	>20/18/15		<u>\$\rightarrow\$ 25/23/18</u>	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.029	0.012



OIL ANALYSIS REPORT





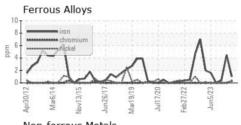


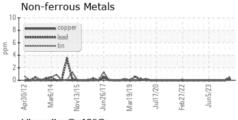
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	▲ MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	▲ MODER
Sand/Dirt	scalar	*Visual	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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	67	63.6	64.2	64.3
SAMPLE IMAGES		method	limit/base	current	history1	history2

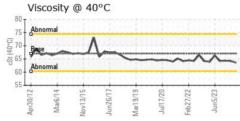
GRAPHS

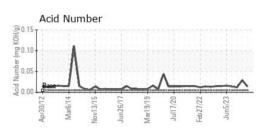
Color

Bottom













Certificate 12367

Laboratory

Sample No. Lab Number : 06159196 Unique Number : 10994619 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : USP0006459

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

Received **Tested**

Diagnosed

: 24 Apr 2024 : 26 Apr 2024

: 26 Apr 2024 - Jonathan Hester

Contact: BRIAN WILBOURN brian.wilbourn@tyson.com

* - 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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DALLAS, TX

US 75237