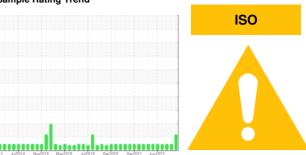


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

FES TCCS SC 3 FES (S/N KT0212)

Refrigeration Compressor

USPI 1009-68 SC (220 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.

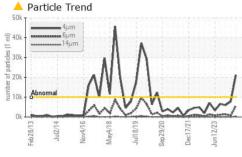
Fluid Condition

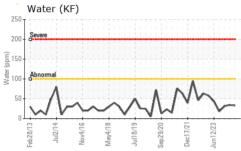
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

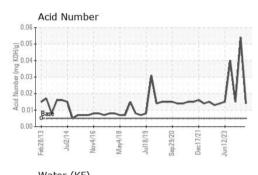
		52013 Jul20	4 Nov2016 May2018	Jul2019 Sep2020 Dec2021 J	lun2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0013427	USP0006244	USP0004486
Sample Date		Client Info		10 Jun 2024	19 Mar 2024	11 Dec 2023
Machine Age	hrs	Client Info		158360	156904	156493
Oil Age	hrs	Client Info		15630	1014	13800
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	7	6	4
Chromium	ppm	ASTM D5185m	>2	<1	0	0
Nickel	ppm	ASTM D5185m		<1	0	<1
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	<1	0	0
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	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		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		<1	0	<1
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	0
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	2	2
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	2
Water	%	ASTM D6304	>0.01	0.003	0.003	0.003
ppm Water	ppm	ASTM D6304	>100	33	34	31
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>10000	<u> </u>	7760	5944
Particles >6µm		ASTM D7647	>2500	<u> </u>	680	1289
Particles >14μm		ASTM D7647	>320	214	19	53
Particles >21µm		ASTM D7647	>80	30	4	11
Particles >38µm		ASTM D7647	>20	0	1	1
Particles >71μm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u>22/20/15</u>	20/17/11	20/17/13
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.054	0.015

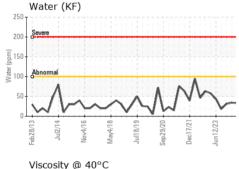


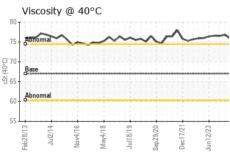
OIL ANALYSIS REPORT

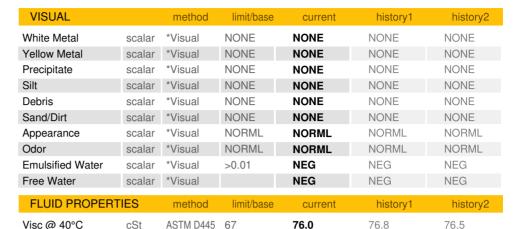










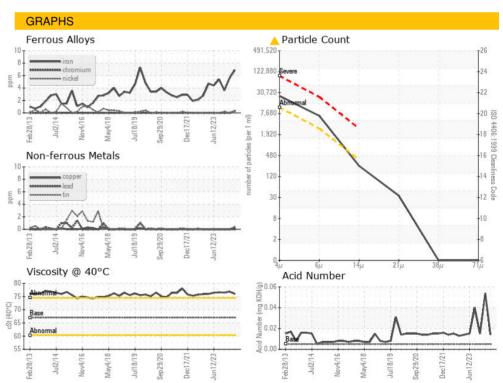


/isc @ 40°C	cSt	ASTM D445	67	76.0	76.8	76.5
SAMPLE IMAGE	S	method	limit/base	current	history1	history2

Color











Certificate 12367

Laboratory Sample No.

: USP0013427 Lab Number : 06206572 Unique Number : 11074033 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Jun 2024 **Tested** : 14 Jun 2024

Diagnosed : 14 Jun 2024 - Doug Bogart

TYSON / TCCS - SIOUX CITY - USP

PO BOX 265 SIOUX CITY, IA US 51102

T: (712)279-0070

Contact: MICHAEL C SMITH

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)

F: (712)279-0069

Contact/Location: MICHAEL C SMITH - TCCSIO