

OIL ANALYSIS REPORT

Sample Rating Trend



^{Machine Id} 2280-C-6 S FES 250 (S/N 2052078)

Component

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 component. The amount and size of particulates present in the system is acceptable.

Fluid Condition

The TAN level is acceptable for this fluid. The condition of the oil is suitable for further service. Viscosity confirmed.

c/011 Aug/2013 Sep2015 Ju2/017 Peb/2019 Jus/2020 Sep2021 Dec/2022						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0004995	USP0002035	USP250709
Sample Date		Client Info		15 Jan 2024	08 Sep 2023	03 Jun 2023
Machine Age	hrs	Client Info		0	7398	0
Oil Age	hrs	Client Info		0	7398	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	0	0
Chromium	ppm	ASTM D5185m	>2	<1	<1	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	<1	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	0	0	0
Tin	ppm	ASTM D5185m	>4	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<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		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	0	2	0
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	1	<1
Sodium	ppm	ASTM D5185m		0	2	0
Potassium	ppm	ASTM D5185m	>20	<1	3	<1
Water	%	ASTM D6304	>0.01	0.004	0.004	0.001
ppm Water	ppm	ASTM D6304	>100	48	43.1	5.7
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	1153	1009	1368
Particles >6µm		ASTM D7647	>2500	238	205	358
Particles >14μm		ASTM D7647	>320	13	14	16
Particles >21µm		ASTM D7647	>80	2	4	2
Particles >38μm		ASTM D7647	>20	0	0	0
Particles >71μm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	17/15/11	17/15/11	18/16/11
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
A sid Niveshau (ANI)		A OTA A DOZA	0.005	0.014	0.044	0.014

Acid Number (AN)

0.014

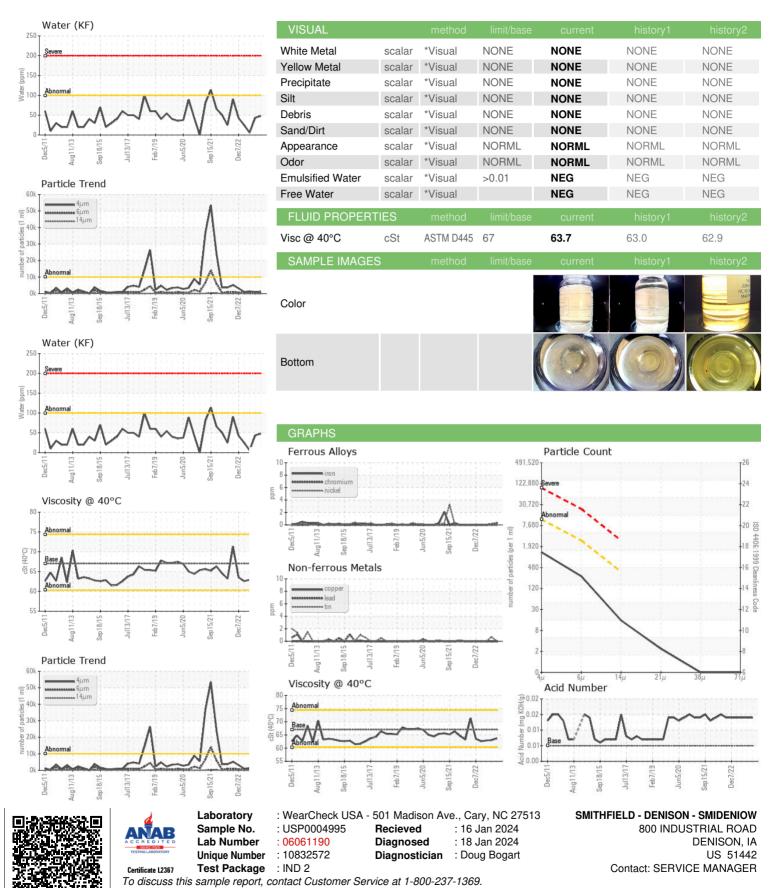
0.014

mg KOH/g ASTM D974 0.005

0.014



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* - 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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