

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

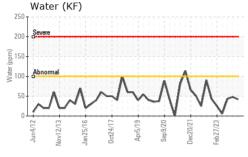
The TAN level is acceptable for this fluid. The condition of the oil is suitable for further service. Viscosity confirmed.

le Number le Date	Client Info		SP0006148 Mar 2024	USP00
MPLE INFORMATION	method	limit/base	current	hi
078)	-2012 RevO13	Jani2016 Oct2017 April01	9 Septimo Decimina	bb2023

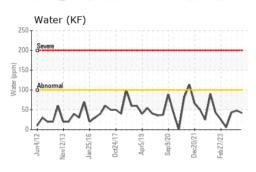
Sample Number		Client Info		USP0006148	USP0004995	USP0002035
Sample Date		Client Info		19 Mar 2024	15 Jan 2024	08 Sep 2023
Machine Age	hrs	Client Info		0	0	7398
Oil Age	hrs	Client Info		0	0	7398
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	0	0
Chromium	ppm	ASTM D5185m	>2	0	<1	<1
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	<1
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	0	0	0
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
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		<1	0	<1
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		<1	0	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	<1	1
Sodium	ppm	ASTM D5185m		0	0	2
Potassium	ppm	ASTM D5185m	>20	0	<1	3
Water	%	ASTM D6304	>0.01	0.004	0.004	0.004
ppm Water	ppm	ASTM D6304	>100	42	48	43.1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>10000	9505	1153	1009
Particles >6µm		ASTM D7647	>2500	2234	238	205
Particles >14µm		ASTM D7647	>320	64	13	14
Particles >21µm		ASTM D7647	>80	9	2	4
Particles >38µm		ASTM D7647	>20	1	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	20/18/13	17/15/11	17/15/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.014	0.014

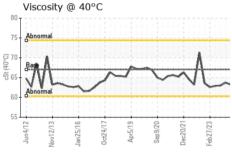


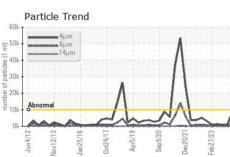
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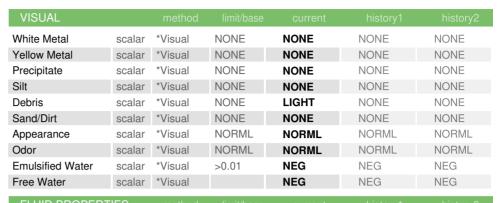


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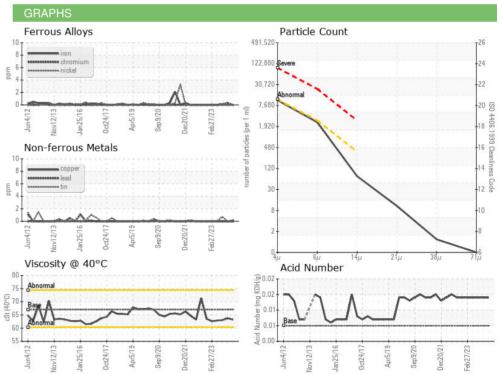




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Visc @ 40°C	cSt	ASTM D445	67	63.2	63.7	63.0

SAMPLE IMAGES	method			
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Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** : 10937861

Test Package : IND 2

: USP0006148 : 06123710

Bottom

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

Tested Diagnosed

: 20 Mar 2024 : 25 Mar 2024

: 25 Mar 2024 - Jonathan Hester

SMITHFIELD - DENISON - SMIDENIOW

800 INDUSTRIAL ROAD

DENISON, IA US 51442

T: (712)263-7414

F: (712)263-7314

Contact: SERVICE MANAGER

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

* - 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)