

PROBLEM SUMMARY

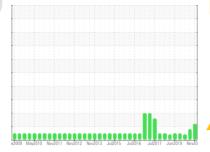
Sample Rating Trend



FES 1 LOGANVILLE (S/N MK3FL-083)

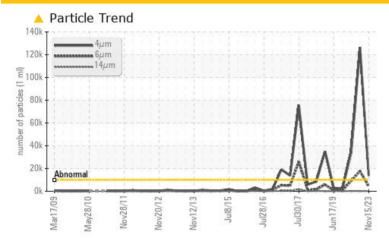
Refrigeration Compressor

USPI 1009-68 SC (30 GAL)





COMPONENT CONDITION SUMMARY



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status		ATTENTION	ABNORMAL	ABNORMAL				
Particles >4µm	ASTM D7647 >1	10000 🔺 13728	<u> </u>	34194				
Particles >6µm	ASTM D7647 >2	2500 4044	<u>▲</u> 17677	<u>\$49</u>				
Oil Cleanliness	ISO 4406 (c) >2	20/18/15 🔺 21/19/14	<u>^</u> 24/21/14	<u>22/20/15</u>				

Customer Id: MICWAKLOG Sample No.: USP231864 Lab Number: 06010204 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

23 Dec 2020 Diag: Jonathan Hester

ISO



Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



19 Apr 2020 Diag: Jonathan Hester

150



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



05 Jan 2020 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

SAMPLE IN

Sample Rating Trend



FES 1 LOGANVILLE (S/N MK3FL-0

Refrigeration Compressor

USPI 1009-68 SC (30 GAL)

DIAGNOSIS

Recommendation

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

083)	#2009 Mey2010	Nov2011 Nov2012 Nov2013	Ju2015 Ju2016 Ju2017	Junž019 Novžo
NFORMATION	method	limit/base	current	hi
per	Client Info	U	SP231864	USP2

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP231864	USP216540	USP191167
Sample Date		Client Info		15 Nov 2023	23 Dec 2020	19 Apr 2020
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
MEADMETALO		and the sale	1111/1		for the second	la la harm O
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	<1	<1	2
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		<1	0	1
Titanium	ppm	ASTM D5185m		0	0	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	<1
Tin	ppm	ASTM D5185m	>4	<1	0	0
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
			IIIIII Daoc			
Boron	ppm	ASTM D5185m		0	<1	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		<1	<1	0
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	14	36	1
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Sodium	ppm	ASTM D5185m	7 10	0	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304		0.003	0.002	0.003
ppm Water	ppm	ASTM D6304		35.5	21.2	26.7
				00.0		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	13728	<u>126311</u>	34194
Particles >6µm		ASTM D7647	>2500	4044	▲ 17677	△ 9249
Particles >14µm		ASTM D7647	>320	146	145	227
Particles >21µm		ASTM D7647	>80	21	23	22
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u> </u>	<u>4</u> 24/21/14	22/20/15
FLUID DEGRADA	TION	method	limit/base	Ourront	hietoryd	history?
				current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.044	0.015	0.014



OIL ANALYSIS REPORT





Certificate L2367

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

: 06010204 : 10749348 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Nov 2023 : USP231864

Diagnosed Diagnostician : Doug Bogart

: 20 Nov 2023

101A NOAK ST WAKEFIELD, NE US 68784

Contact: DEREK JENSEN

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)

Contact/Location: DEREK JENSEN - MICWAKLOG

F:

T: (402)287-5272