

PROBLEM SUMMARY

Sample Rating Trend

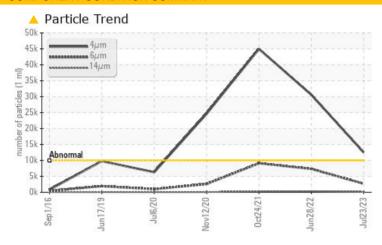


HSC-5 (S/N 2515915)

Refrigeration Compressor

USPI ALT-68 SC (--- LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status			ATTENTION	ABNORMAL	ABNORMAL		
Particles >4µm	ASTM D7647	>10000	<u> </u>	<u>△</u> 30574	44979		
Particles >6µm	ASTM D7647	>2500	2670	▲ 7340	<u></u> 9105		
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<u> </u>	<u>^</u> 22/20/16	▲ 23/20/15		

Customer Id: PREORA Sample No.: USPM5905472 Lab Number: 05905472 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

28 Jun 2022 Diag: Doug Bogart

ISO



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



24 Oct 2021 Diag: Doug Bogart

150



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.



12 Nov 2020 Diag: Jonathan Hester

ISO



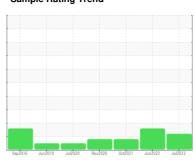
Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



HSC-5 (S/N 2515915)

Component

Refrigeration Compressor

USPI ALT-68 SC (--- LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. There is a trace of moisture present in the oil.

Fluid Condition

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

		Sep2016	Jun2019 Jul2020	Nov2020 Oct2021 Jun2022	Jul2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM5905472	USP235937	USP226036
Sample Date		Client Info		23 Jul 2023	28 Jun 2022	24 Oct 2021
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
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	3	1	0
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>3	0	<1	<1
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	0	0	0
Tin	ppm	ASTM D5185m	>4	0	0	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		<1	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		0	0	0
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	39	54	2
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	4	4	3
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water	%	ASTM D6304	>0.01	0.013	0.009	0.007
ppm Water	ppm	ASTM D6304	>100	130.2	97.5	77.1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>10000	<u> </u>	△ 30574	44979
Particles >6µm		ASTM D7647	>2500	^ 2670	<u>^</u> 7340	△ 9105
Particles >14µm		ASTM D7647	>320	110	△ 333	310
Particles >21µm		ASTM D7647	>80	20	40	47
Particles >38µm		ASTM D7647	>20	0	1	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u>^</u> 21/19/14	<u>22/20/16</u>	△ 23/20/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2



OIL ANALYSIS REPORT







Certificate L2367

Sample No. Lab Number

Unique Number Test Package

: USPM5905472

: 05905472 : 10566828 : IND 2

: 24 Jul 2023 Received

Diagnostician

: 25 Jul 2023 Diagnosed : Doug Bogart

101 14TH ST SE ORANGE CITY, IA US 51041

Contact: TIM REINERT

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) T: (712)737-5739 F: