

OIL ANALYSIS REPORT

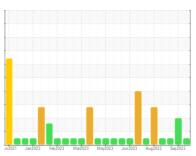
OIL ANAL 1515 REPORT

PHS AND PLS SYSTEM Machine Id RECYCLED NH3 SYSTEM 2

Component

Refrigeration Compressor

USPI ALT-68 SC (--- GAL)



Sample Rating Trend



DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

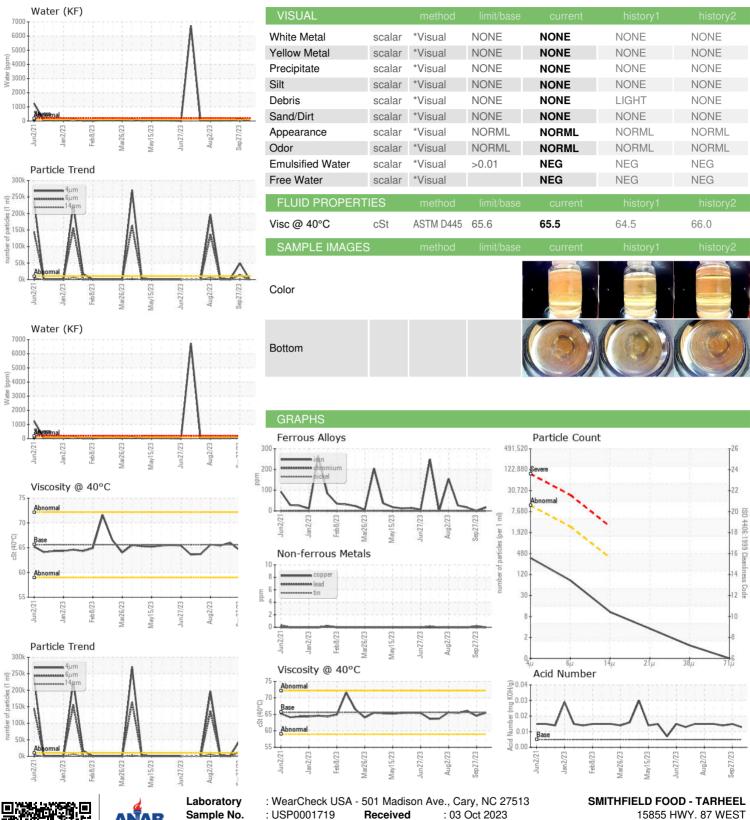
Fluid Condition

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

		in2021 Jan2	023 Feb 2023 Mar 2023	May2023 Jun2023 Aug2023	Sep2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0001719	USP248087	USP248086
Sample Date		Client Info		02 Oct 2023	27 Sep 2023	17 Sep 2023
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				NORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	17	<1	16
Chromium	ppm	ASTM D5185m	>2	0	0	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	<1	<1	<1
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	0	<1	0
Tin	ppm	ASTM D5185m	>4	0	0	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		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		<1	0	0
Calcium	ppm	ASTM D5185m		1	0	<1
Phosphorus	ppm	ASTM D5185m		1	0	<1
Zinc	ppm	ASTM D5185m		<1	0	0
Sulfur	ppm	ASTM D5185m	50	0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	2	2
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304	>0.01	0.003	0.012	0.003
ppm Water	ppm	ASTM D6304	>100	36.9	125.9	30.0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	316	4 9608	651
Particles >6µm		ASTM D7647	>2500	72	<u>▲</u> 13888	140
Particles >14μm		ASTM D7647	>320	9	△ 957	11
Particles >21µm		ASTM D7647	>80	3	<u>193</u>	4
Particles >38μm		ASTM D7647	>20	1	1	1
Particles >71μm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	15/13/10	<u>\$\rightarrow\$ 23/21/17</u>	17/14/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.013	0.015	0.014



OIL ANALYSIS REPORT





Certificate L2367

Sample No. Lab Number **Unique Number**

: 05967862 Test Package : IND 2

: 03 Oct 2023 : USP0001719 Received : 04 Oct 2023 Diagnosed

: Doug Bogart

: 10674413 Diagnostician

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)

TARHEEL, NC

Contact: SERVICE MANAGER

US 28392

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