

PROBLEM SUMMARY

Sample Rating Trend



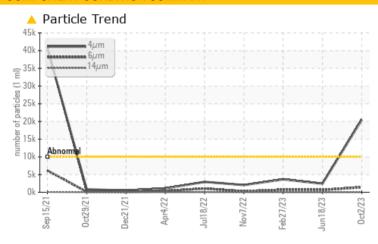
GEA CARCOL 15 (S/N 010-000500-006)

Component

Refrigeration Compressor

USPI ALT-68 SC (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST	RESULTS				
Sample Status			ABNORMAL	NORMAL	NORMAL
Particles >4µm	ASTM D7647	>10000	<u>20484</u>	2436	3647
Oil Cleanliness	ISO 4406 (c)	>20/18/15	22/18/11	18/17/11	19/17/11

Customer Id: CARCOLNE Sample No.: USP0001705 Lab Number: 05967860 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

18 Jun 2023 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.



27 Feb 2023 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.



07 Nov 2022 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 Rating Trend



Machine Id

GEA CARCOL 15 (S/N 010-000500-006)

Component

Refrigeration Compressor

USPI ALT-68 SC (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Woor

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 6 microns in size) present in the oil.

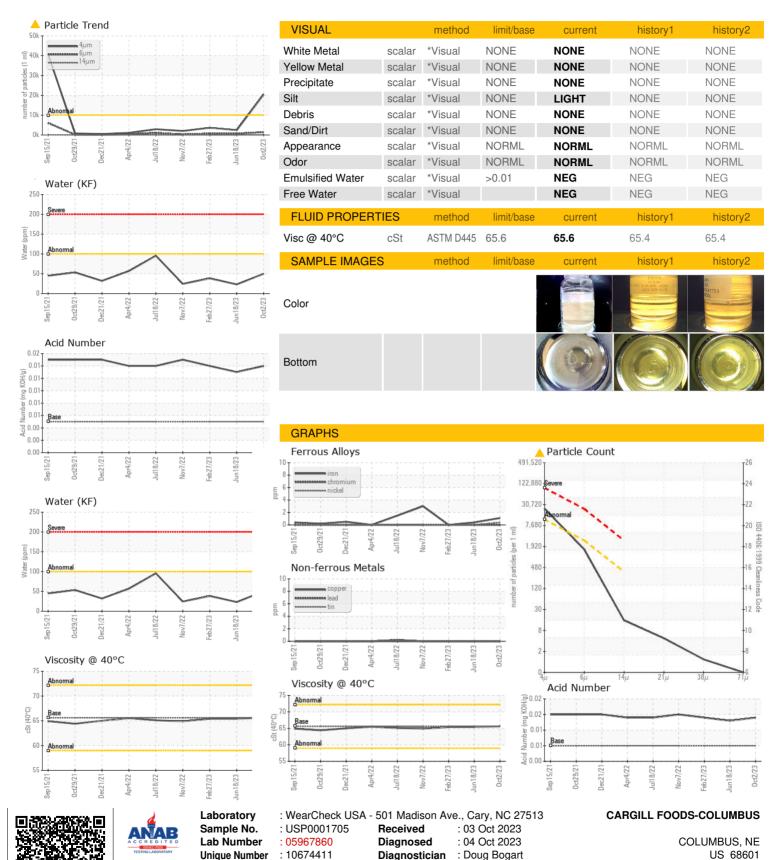
Fluid Condition

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

SAMPLE INFORMATION method limit/base current history1 history2 Sample Date Client Info USP201705 USP248999 USP246999 Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info N/A N/A N/A Oil Changed Client Info N/A N/A N/A N/A Sample Status method limil/base current history1 history2 Iron ppm ASTM D5185m >8 1 <1 0 Chromium ppm ASTM D5185m >2 0 0 0 Nickel ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Capper ppm ASTM D5185m >3 <1 0 0 Capper ppm ASTM D5185m >2 0 0 0 Capper			Sep2021 Oc	t2021 Dec2021 Apr2022	Jul2022 Nov2022 Feb2023 Jun20	23 Oct2023	
Sample Date Client Info 02 Oct 2023 18 Jun 2023 27 Feb 2023 Machine Age hrs Client Info 0 0 0 0 Oil Age hrs Client Info 0 0 0 0 Oil Changed Client Info N/A N/A N/A N/A N/A Sample Status Image: Client Info N/A N/A N/A N/A N/A N/A MSTM DSIEST ABNORMAL NORMAL NORMAL NORMAL NORMAL Iron ppm ASTM DSIEST 2 0 0 0 Chromium ppm ASTM DSIEST 2 0 0 0 Nickel ppm ASTM DSIEST 2 0 0 0 Nickel ppm ASTM DSIEST 2 0 0 0 Nickel ppm ASTM DSIEST 2 0 0 0 Aluminum ppm ASTM DSIEST 2 <	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age	Sample Number		Client Info		USP0001705	USP243989	USP246999
Oil Age hrs Client Info N/A N/A N/A N/A Sample Status Client Info N/A N/A N/A N/A N/A WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >8 1 <1 0 Chromium ppm ASTM D5185m >2 0 0 0 Nickel ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >2 0 0 0 Lead ppm ASTM D5185m >2 0 0 0 Copper ppm ASTM D5185m >4 0 0 0 Cardnium ppm ASTM D5185m 0 0 0 <td>Sample Date</td> <td></td> <td>Client Info</td> <td></td> <th>02 Oct 2023</th> <td>18 Jun 2023</td> <td>27 Feb 2023</td>	Sample Date		Client Info		02 Oct 2023	18 Jun 2023	27 Feb 2023
Oil Changed Status	Machine Age	hrs	Client Info		0	0	0
Sample Status method limit/base current history1 history2 Iron ppm ASTM D5185m >8 1 <1 0 Chromium ppm ASTM D5185m >2 0 0 0 Nickel ppm ASTM D5185m >2 0 0 0 Tituanium ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >2 0 0 0 Copper ppm ASTM D5185m >2 0 0 0 Copper ppm ASTM D5185m >2 0 0 0 Tin ppm ASTM D5185m >4 0 0 0 Cadium ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0	Oil Age	hrs	Client Info		0	0	0
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >8 1 <1	Oil Changed		Client Info		N/A	N/A	N/A
Iron	Sample Status				ABNORMAL	NORMAL	NORMAL
Chromium ppm ASTM D5185m >2 0 0 0 Nickel ppm ASTM D5185m 0 0 0 Titanium ppm ASTM D5185m 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >2 0 0 0 Lead ppm ASTM D5185m >2 0 0 0 Copper ppm ASTM D5185m >4 0 0 0 Tin ppm ASTM D5185m 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Mangaesium	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>8	1	<1	0
Titanium ppm ASTM D5185m 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Chromium	ppm	ASTM D5185m	>2	0	0	0
Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >3 <1	Nickel	ppm	ASTM D5185m		<1	0	0
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Calcium ppm ASTM D5185m <1 0 0 Phosphorus ppm ASTM D5185m 0 <1	Manganese	ppm	ASTM D5185m		0	0	0
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	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2



OIL ANALYSIS REPORT



Certificate L2367

Test Package

: IND 2

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:

T: F: