

OIL ANALYSI

Machine Id GEA CARCOL 15 (S/N 010-00

Refrigeration Compressor

USPI ALT-68 SC (--- GAL)

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 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.

SIS REPC	N	NORMAL				
000500-00)6)					
	,					
		Sep2021	Dec2021 Jul2022	Feb2023 Oct2023 M	ar2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0012839	USP0006104	USP0005491
Sample Date		Client Info		29 May 2024	18 Mar 2024	01 Feb 2024
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	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>8	0	0	0
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	0
_ead	ppm	ASTM D5185m	>2	<1	0	0
Copper	ppm	ASTM D5185m	>8	0	0	0
Tin Kara a diwaa	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium Cadmium	ppm	ASTM D5185m ASTM D5185m		<1 <1	0	0
	ppm				-	
ADDITIVES		method	limit/base		history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese Magnesium	ppm	ASTM D5185m		<1	0	0
Calcium	ppm	ASTM D5185m ASTM D5185m		0	0	0
Phosphorus	ppm ppm	ASTM D5185m		۰ <1	0	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	0	0	0
CONTAMINANTS	\$	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	1
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
Water	%	ASTM D6304	>0.01	0.003	0.001	0.003
opm Water	ppm	ASTM D6304	>100	32	1	31
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	4791	1377	A 32361
Particles >6µm		ASTM D7647	>2500	1187	397	5 408
Particles >14µm		ASTM D7647	>320	20	15	98
Particles >21µm		ASTM D7647	>80	2	4	12
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	19/17/11	18/16/11	A 22/20/14
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2

Sample Rating Trend

Acid Number (AN)

mg KOH/g ASTM D974 0.005

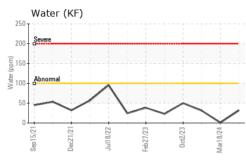
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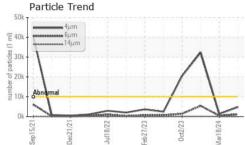
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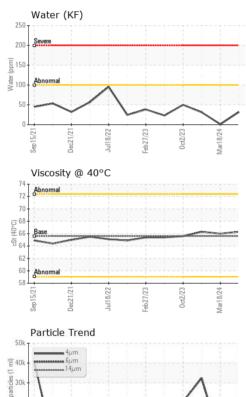
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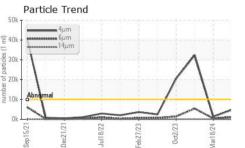


OIL ANALYSIS REPORT



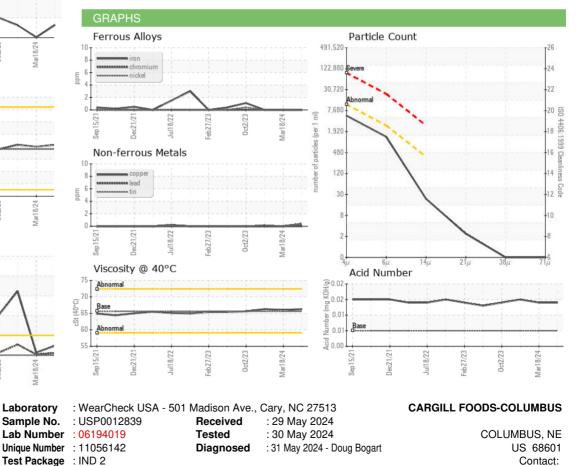


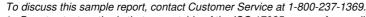




Certificate 12367

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	65.6	66.3	66.0	66.3
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				- Company	•	
Bottom						(\bigcirc)





* - 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)

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Contact/Location: - CARCOLNE Page 2 of 2

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