

WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ABNORMAL NORMAL

[MC001363]

CARLYLE COSTCO #591 RACK C (S/N W816018)

Reciprocating Compressor

ICI EMKARATE RL 68H (--- GAL)

RECOMMENDATION	
We advise that you check for the sou	rce of w

vater entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0907692	WC0789027	WC0556279
Sample Date		Client Info		28 Feb 2024	24 Feb 2023	16 Feb 2021
Machine Age	yrs	Client Info		0	0	0
Oil Age	yrs	Client Info		0	0	0
Filter Age	yrs	Client Info		0	0	1
Oil Changed		Client Info		N/A	N/A	Filtered
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
PQ		ASTM D8184*		0	0	0
			F0	_	0	
Iron	ppm	ASTM D5185(m)	>50	4	I	<1

WEAR

All component wear rates are normal.

Sample Status				ADNONWAL	NORIVIAL	NORIVIAL
PQ		ASTM D8184*		0	0	0
Iron	ppm	ASTM D5185(m)	>50	4	1	<1
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)		<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>25	0	0	0
Copper	ppm	ASTM D5185(m)	>50	<1	0	<1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

NONE

NONE

NONE

NONE

NONE

NONE

NONE

NONE

White Metal

Yellow Metal

scalar Visual*

scalar Visual*

CONTAMINATION

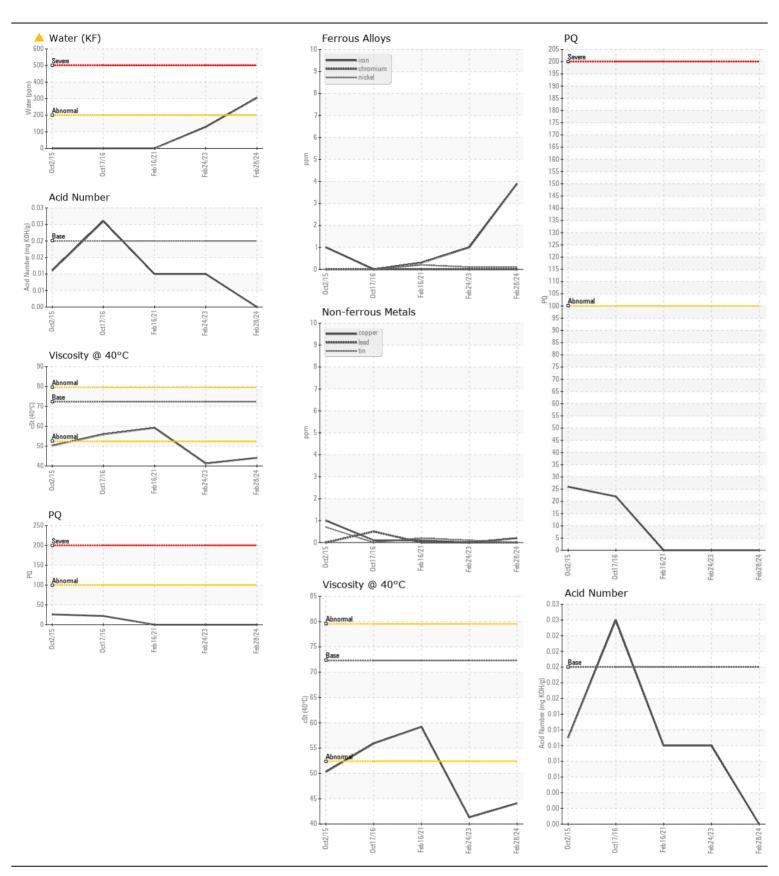
There is a moderate concentration of water present in the oil.

Silicon	ppm	ASTM D5185(m)	>25	1	2	2
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
Water	%	ASTM D6304*	>0.02	0.030	0.012	
ppm Water	ppm	ASTM D6304*	>200	△ 305	129.4	
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	FREON	FREON	NORML
Emulsified Water	scalar	Visual*	>0.02	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		0	<1	<1
D		AOTAL DELOC()	0	•	- 4	- 4

FLUID CONDITION

Viscosity of sample indicates oil is within ISO 46 range, advise investigate. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185(m)		0	<1	<1
Boron	ppm	ASTM D5185(m)	0	0	<1	<1
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	0	0	0	0
Calcium	ppm	ASTM D5185(m)	0	0	0	0
Phosphorus	ppm	ASTM D5185(m)	1900	<1	2	2
Zinc	ppm	ASTM D5185(m)	0	<1	<1	<1
Sulfur	ppm	ASTM D5185(m)	25	0	2	10
Acid Number (AN)	mg KOH/g	ASTM D974*	0.02	0.00	0.01	0.01
Visc @ 40°C	cSt	ASTM D7279(m)	72.3	44.1	41.3	59.2





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number

: 02620222 Unique Number : 5737332

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0907692

Tested Diagnosed

Received

: 11 Mar 2024 : 11 Mar 2024 - Kevin Marson

: 06 Mar 2024

Test Package : IND 2 (Additional Tests: KF, TAN Man) To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Neelands Group Limited

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