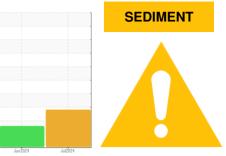


## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# 112039 (S/N 5329X6055) Compressor

Fluid CIMARRON HB-150 (--- GAL)

### DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

## Contamination

There is a high amount of particulates present in the oil. There is a moderate amount of visible silt present in the sample.

#### Fluid Condition

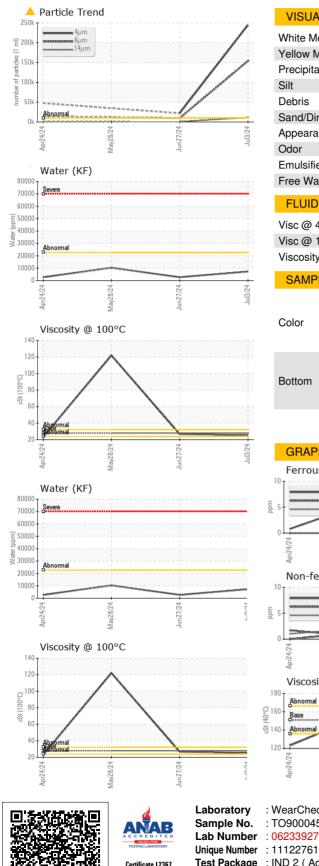
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO90004509	TO90004526	TO90004127
Sample Date		Client Info		03 Jul 2024	27 Jun 2024	28 May 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	2	<1	5
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m		<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	<1
Lead	ppm	ASTM D5185m	>25	<1	<1	1
Copper	ppm	ASTM D5185m	>50	0	0	<1
Tin	ppm	ASTM D5185m	>15	1	<1	2
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	<1	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	0	0	0	0
Calcium	ppm	ASTM D5185m	0	4	0	0
Phosphorus	ppm	ASTM D5185m	0	54	84	31
Zinc	ppm	ASTM D5185m	0	0	0	0
Sulfur	ppm	ASTM D5185m	0	876	1136	1541
CONTAMINANTS		method	limit/base	current	history1	In the terms of
				Current	Thistory	history2
Silicon	ppm	ASTM D5185m	>25	4	<1	<1
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>25			
			>25 >20	4	<1	<1
Sodium	ppm	ASTM D5185m	>20	4 <1	<1 0	<1 0
Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>20 >2.26	4 <1 3	<1 0 3	<1 0 3
Sodium Potassium Water	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304	>20 >2.26	4 <1 3 0.729	<1 0 3 0.271	<1 0 3 1.035
Sodium Potassium Water ppm Water	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304	>20 >2.26 >22600	4 <1 3 0.729 7290 current ▲ 244432	<1 0 3 0.271 2710	<1 0 3 1.035 10356
Sodium Potassium Water ppm Water FLUID CLEANLIN	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method	>20 >2.26 >22600 limit/base	4 <1 3 0.729 7290 current ▲ 244432 ▲ 153816	<1 0 3 0.271 2710 history1	<1 0 3 1.035 10356 history2
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	>20 >2.26 >22600 limit/base >10000	4 <1 3 0.729 7290 current ▲ 244432 ▲ 153816 ▲ 11256	<1 0 3 0.271 2710 history1 ^ 21896 ^ 9698 ^ 604	<1 0 3 1.035 10356 history2
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 <b>method</b> ASTM D7647 ASTM D7647	>20 >2.26 >22600 limit/base >10000 >2500	4 <1 3 0.729 7290 current ▲ 244432 ▲ 153816	<1 0 3 0.271 2710 history1 ▲ 21896 ▲ 9698	<1 0 3 1.035 10356 history2
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	>20 >2.26 >22600 limit/base >10000 >2500 >320	4 <1 3 0.729 7290 current ▲ 244432 ▲ 153816 ▲ 11256	<1 0 3 0.271 2710 history1 ^ 21896 ^ 9698 ^ 604	<1 0 3 1.035 10356 history2  
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >2.26 >22600 limit/base >10000 >2500 >320 >80	4 <1 3 0.729 7290 current ▲ 244432 ▲ 153816 ▲ 11256 ▲ 1152	<1 0 3 0.271 2710 history1 21896 9698 604 67 1 0	<1 0 3 1.035 10356 history2  
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >2.26 >22600 limit/base >10000 >2500 >320 >80 >20	4 <1 3 0.729 7290 current ▲ 244432 ▲ 153816 ▲ 11256 ▲ 1152 7	<1 0 3 0.271 2710 history1 21896 9698 604 67 1	<1 0 3 1.035 10356 history2   
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm % ppm ESS	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >2.26 >22600 limit/base >10000 >2500 >320 >80 >20 >4	4 <1 3 0.729 7290 current ▲ 244432 ▲ 153816 ▲ 11256 ▲ 1152 7 1	<1 0 3 0.271 2710 history1 21896 9698 604 67 1 0	<1 0 3 1.035 10356 history2    

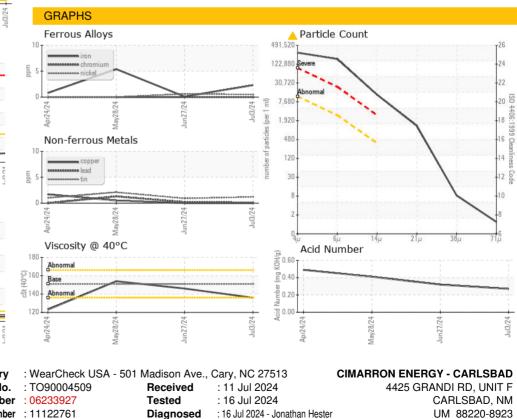
Contact/Location: CARLOS LEAL - CIMCAR Page 1 of 2



# **OIL ANALYSIS REPORT**



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	A MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	🔺 MODER
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	>2.26	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	151	136	146	154
Visc @ 100°C	cSt	ASTM D445	28	25.3	26.8	122
Viscosity Index (VI)	Scale	AOTH DOOTO	004			011
	Scale	ASTM D2270	224	221	221	614
SAMPLE IMAGES		method	limit/base	221 current	221 history1	614 history2
, (,						



Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI) 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)

UM 88220-8923 Contact: CARLOS LEAL cleal@cimarron.com T: F:

Report Id: CIMCAR [WUSCAR] 06233927 (Generated: 07/16/2024 15:00:13) Rev: 1

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