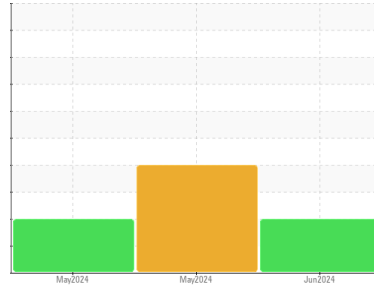


# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**LEROI 111442 (S/N SC392020)**  
 Component  
**Compressor**  
 Fluid  
**CIMARRON HB-150 (--- GAL)**

**DIAGNOSIS**

**Recommendation**

We recommend you service the filters on this component. Resample at the next service interval to monitor. Please note that this is a corrected copy.

**Wear**

All component wear rates are normal.

**Contamination**

There is a high amount of particulates 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 Number	Client Info		<b>TO90004151</b>	TO90004076	TO90004233
Sample Date	Client Info		<b>03 Jun 2024</b>	24 May 2024	01 May 2024
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	Changed	N/A
Sample Status			<b>ABNORMAL</b>	SEVERE	ABNORMAL

WEAR METALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >70	<b>3</b>	0	8
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >3	<b>&lt;1</b>	<1	2
Lead	ppm	ASTM D5185m >4	<b>1</b>	<1	<1
Copper	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	1
Tin	ppm	ASTM D5185m >3	<b>2</b>	2	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	<1

ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>0</b>	11	5
Barium	ppm	ASTM D5185m 0	<b>0</b>	<1	1
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m 0	<b>0</b>	5	<1
Calcium	ppm	ASTM D5185m 0	<b>0</b>	25	5
Phosphorus	ppm	ASTM D5185m 0	<b>0</b>	36	15
Zinc	ppm	ASTM D5185m 0	<b>0</b>	21	7
Sulfur	ppm	ASTM D5185m 0	<b>34</b>	682	628

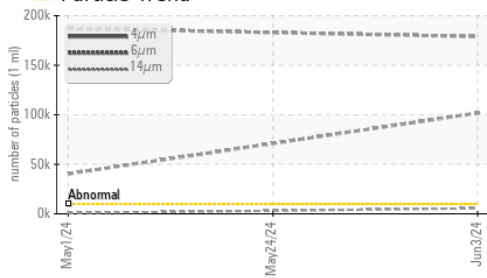
CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >45	<b>&lt;1</b>	25	2
Sodium	ppm	ASTM D5185m	<b>2</b>	4	12
Potassium	ppm	ASTM D5185m >20	<b>3</b>	6	2
Water	%	ASTM D6304 >2.26	<b>0.984</b>	▲ 23.1	1.32
ppm Water	ppm	ASTM D6304 >22600	<b>9845</b>	▲ 231000	13200

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ <b>178874</b>	---	▲ 187187
Particles >6µm	ASTM D7647	>2500	▲ <b>101746</b>	---	▲ 40332
Particles >14µm	ASTM D7647	>320	▲ <b>5514</b>	---	▲ 670
Particles >21µm	ASTM D7647	>80	▲ <b>504</b>	---	▲ 57
Particles >38µm	ASTM D7647	>20	<b>13</b>	---	1
Particles >71µm	ASTM D7647	>4	<b>1</b>	---	1
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ <b>25/24/20</b>	---	▲ 25/23/17

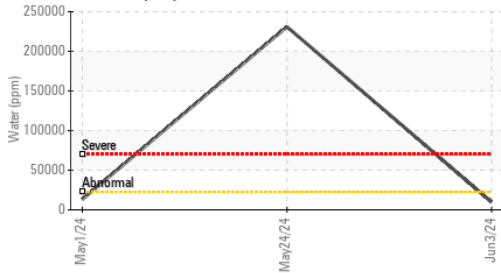
FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.065</b>	0.24	0.26

# OIL ANALYSIS REPORT

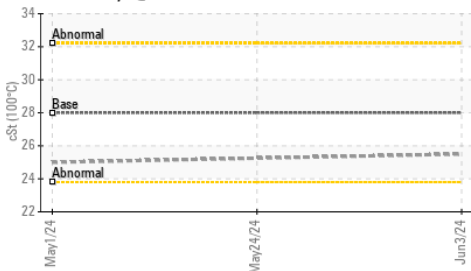
### Particle Trend



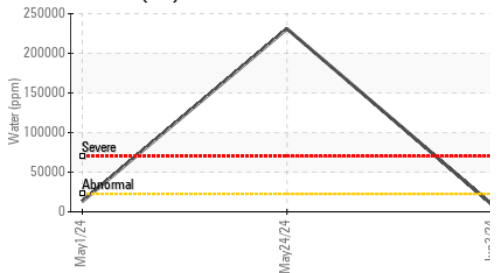
### Water (KF)



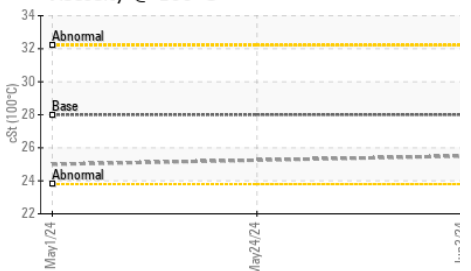
### Viscosity @ 100°C



### Water (KF)



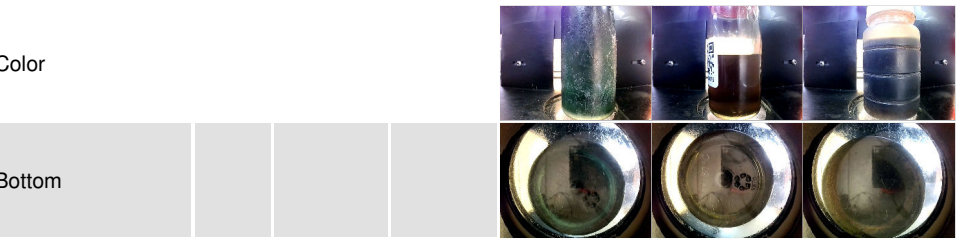
### Viscosity @ 100°C



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>2.26	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

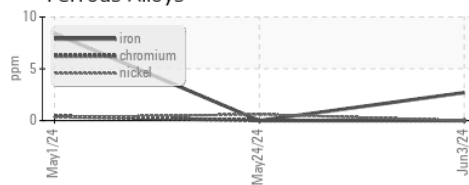
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	151	● 47.08	134
Visc @ 100°C	cSt	ASTM D445	28	---	25.0
Viscosity Index (VI)	Scale	ASTM D2270	224	---	221

### SAMPLE IMAGES

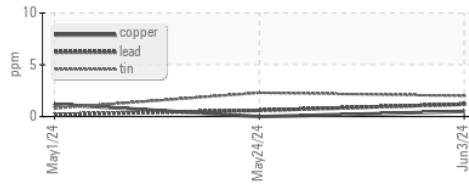


### GRAPHS

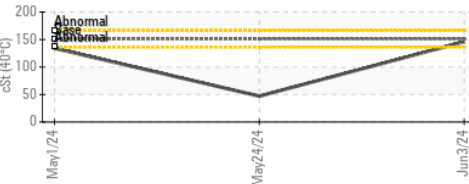
#### Ferrous Alloys



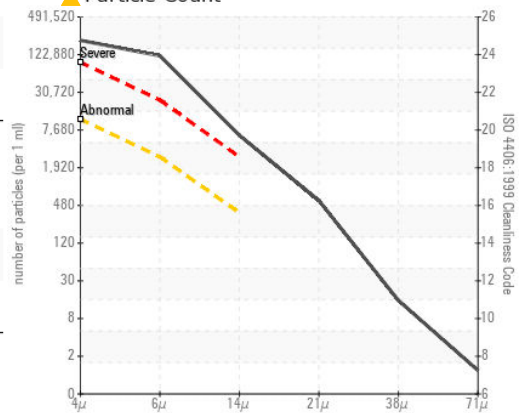
#### Non-ferrous Metals



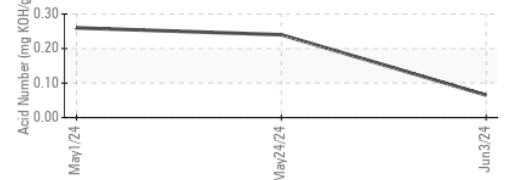
#### Viscosity @ 40°C



#### Particle Count



#### Acid Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : TO90004151

**Lab Number** : 06204753

**Unique Number** : 11072214

**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)

**Received** : 10 Jun 2024

**Tested** : 13 Jun 2024

**Diagnosed** : 13 Jun 2024 - Doug Bogart

**CIMARRON ENERGY - CARLSBAD**

4425 GRANDI RD, UNIT F

CARLSBAD, NM

UM 88220-8923

Contact: CARLOS LEAL

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