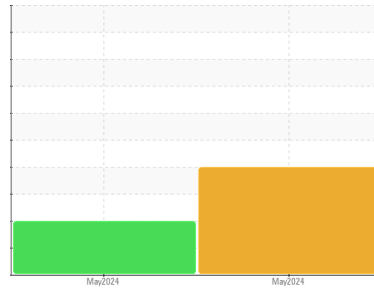


PROBLEM SUMMARY

Sample Rating Trend

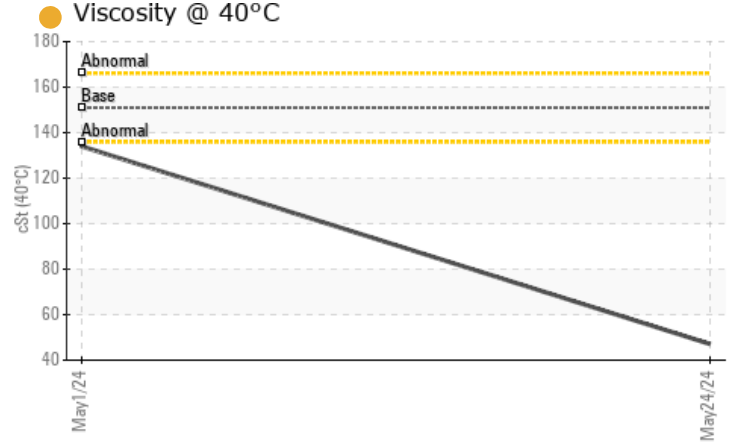
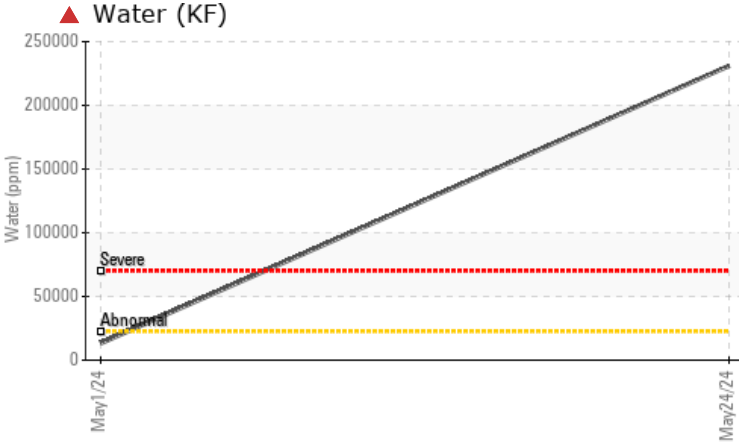


WATER



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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. Please note that there was too much water present in the oil to perform a viscosity test.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	---
Water	%	ASTM D6304	>2.26	▲ 23.1	1.32	---
ppm Water	ppm	ASTM D6304	>22600	▲ 231000	13200	---
Debris	scalar	*Visual	NONE	▲ MODER	NONE	---

Customer Id: CIMCAR
 Sample No.: TO90004076
 Lab Number: 06205569
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Water Drain-off	---	---	?	We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

ISO



01 May 2024 Diag: Doug Bogart

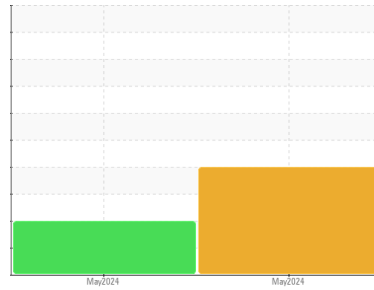
We recommend you service the filters on this component. Resample at the next service interval to monitor. Please note that this is a corrected copy. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



WATER



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

DIAGNOSIS

▲ Recommendation

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. Please note that there was too much water present in the oil to perform a viscosity test.

Wear

All component wear rates are normal.

▲ Contamination

There is a high concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

● Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			TO90004076	TO90004233	---
Sample Date	Client Info			24 May 2024	01 May 2024	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	0	---
Oil Changed	Client Info			Changed	N/A	---
Sample Status				SEVERE	ABNORMAL	---

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

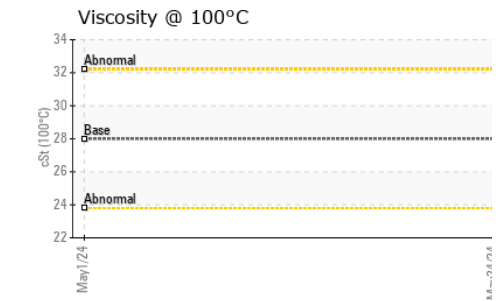
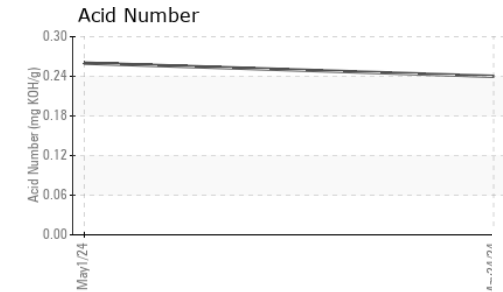
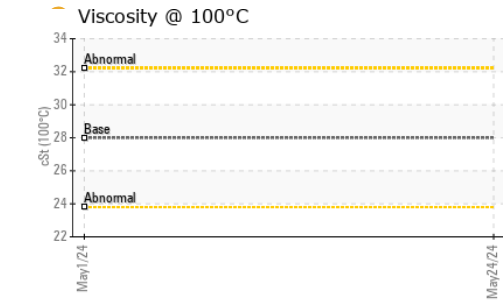
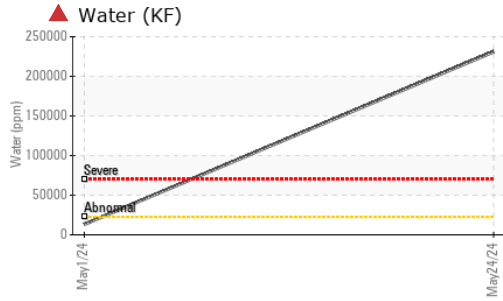
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	11	5	---
Barium	ppm	ASTM D5185m	0	<1	1	---
Molybdenum	ppm	ASTM D5185m	0	0	<1	---
Manganese	ppm	ASTM D5185m		<1	0	---
Magnesium	ppm	ASTM D5185m	0	5	<1	---
Calcium	ppm	ASTM D5185m	0	25	5	---
Phosphorus	ppm	ASTM D5185m	0	36	15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

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>45	25	2	---
Sodium	ppm	ASTM D5185m		4	12	---
Potassium	ppm	ASTM D5185m	>20	6	2	---
Water	%	ASTM D6304	>2.26	▲ 23.1	1.32	---
ppm Water	ppm	ASTM D6304	>22600	▲ 231000	13200	---

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

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

OIL ANALYSIS REPORT



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO90004076 **Received** : 10 Jun 2024
Lab Number : 06205569 **Tested** : 19 Jun 2024
Unique Number : 11073030 **Diagnosed** : 19 Jun 2024 - Jonathan Hester
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)

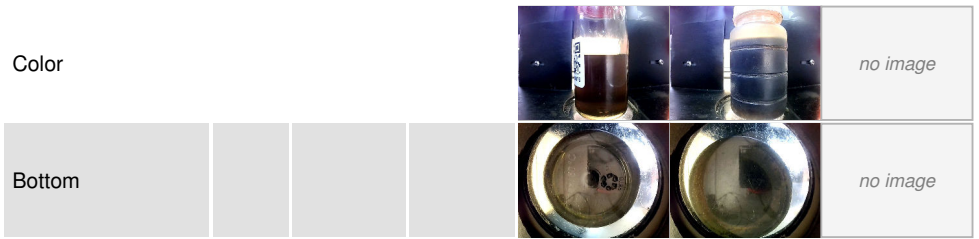
CIMARRON ENERGY - CARLSBAD
 4425 GRANDI RD, UNIT F
 CARLSBAD, NM
 UM 88220-8923
 Contact: CARLOS LEAL
 cleal@cimarron.com

T:
F:

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

