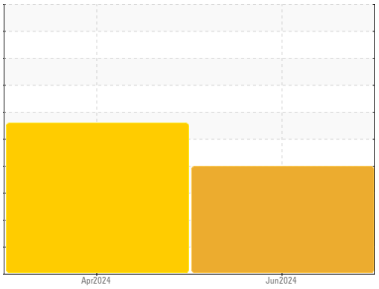
PROBLEM SUMMARY

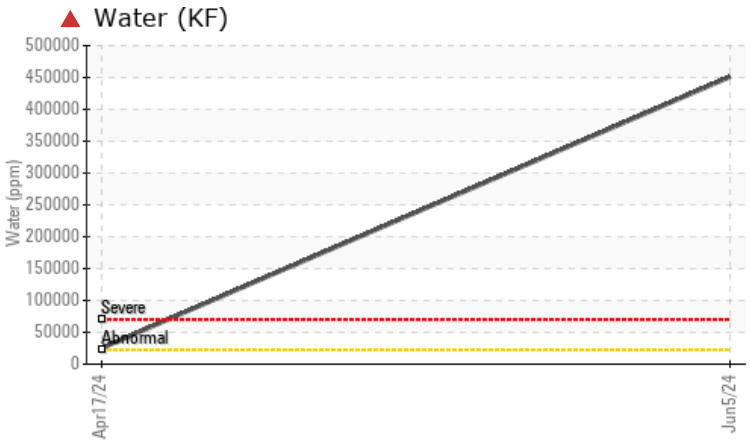
Sample Rating Trend



WATER

Machine Id
LEROI VRUOXY0028 (S/N LE13137)
Component
Compressor
Fluid
CIMARRON HB-150 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count. Please note that there was too much water present in the oil to perform a viscosity test.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	SEVERE	---
Water	%	ASTM D6304	>2.26	▲ **45.1**	▲ 2.51	---
ppm Water	ppm	ASTM D6304	>22600	▲ **451000**	▲ 25100	---
Emulsified Water	scalar	*Visual	>2.26	▲ **0.2%**	NEG	---

Customer Id: CIMCAR
Sample No.: TO90004110
Lab Number: 06205584
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
Change Fluid	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Change Filter	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Alert	---	---	?	Please note that there was too much water present in the oil to perform a viscosity test.

HISTORICAL DIAGNOSIS

WATER

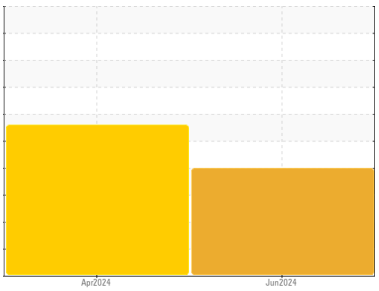
17 Apr 2024 Diag: Jonathan Hester

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.All component wear rates are normal. There is a high amount of particulates present in the oil. There is a high concentration of water present in the oil. The AN level is acceptable for this fluid.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id
LEROI VRUOXY0028 (S/N LE13137)
Component
Compressor
Fluid
CIMARRON HB-150 (--- GAL)

DIAGNOSIS

▲ Recommendation
We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count. 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.

Fluid Condition
The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**TO90004110**	TO90004184	---
Sample Date		Client Info		**05 Jun 2024**	17 Apr 2024	---
Machine Age	hrs	Client Info		**0**	0	---
Oil Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**N/A**	N/A	---
Sample Status				**SEVERE**	SEVERE	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**0**	20	---
Chromium	ppm	ASTM D5185m	>10	**0**	<1	---
Nickel	ppm	ASTM D5185m		**<1**	1	---
Titanium	ppm	ASTM D5185m		**0**	<1	---
Silver	ppm	ASTM D5185m		**0**	<1	---
Aluminum	ppm	ASTM D5185m	>25	**1**	2	---
Lead	ppm	ASTM D5185m	>25	**<1**	1	---
Copper	ppm	ASTM D5185m	>50	**0**	<1	---
Tin	ppm	ASTM D5185m	>15	**3**	2	---
Vanadium	ppm	ASTM D5185m		**<1**	<1	---
Cadmium	ppm	ASTM D5185m		**<1**	1	---

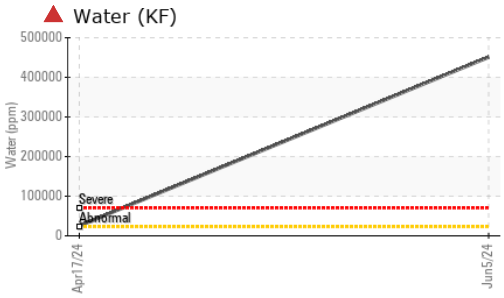
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**5**	0	---
Barium	ppm	ASTM D5185m	0	**0**	0	---
Molybdenum	ppm	ASTM D5185m	0	**0**	1	---
Manganese	ppm	ASTM D5185m		**<1**	1	---
Magnesium	ppm	ASTM D5185m	0	**3**	<1	---
Calcium	ppm	ASTM D5185m	0	**1**	5	---
Phosphorus	ppm	ASTM D5185m	0	**6**	23	---
Zinc	ppm	ASTM D5185m	0	**5**	0	---
Sulfur	ppm	ASTM D5185m	0	**37**	162	---

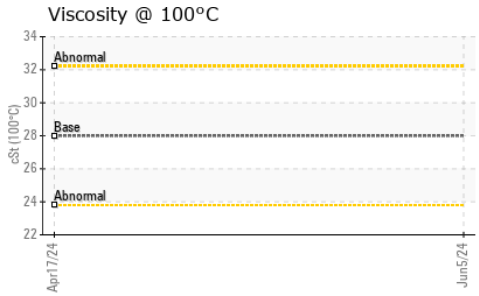
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**<1**	2	---
Sodium	ppm	ASTM D5185m		**0**	6	---
Potassium	ppm	ASTM D5185m	>20	**6**	1	---
Water	%	ASTM D6304	>2.26	**▲ 45.1**	▲ 2.51	---
ppm Water	ppm	ASTM D6304	>22600	**▲ 451000**	▲ 25100	---

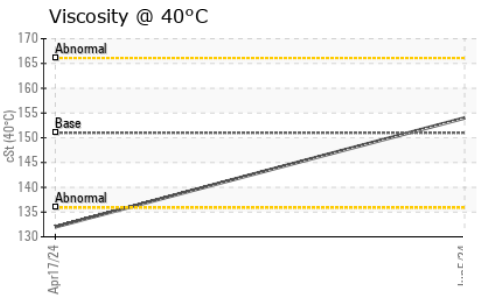
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	**---**	▲ 185033	---
Particles >6µm		ASTM D7647	>2500	**---**	▲ 80782	---
Particles >14µm		ASTM D7647	>320	**---**	▲ 6127	---
Particles >21µm		ASTM D7647	>80	**---**	▲ 1387	---
Particles >38µm		ASTM D7647	>20	**---**	▲ 38	---
Particles >71µm		ASTM D7647	>4	**---**	2	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	**---**	▲ 25/24/20	---

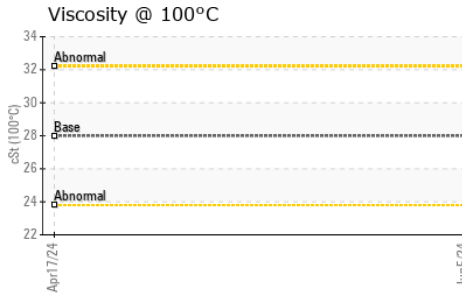
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.118**	0.23	---

OIL ANALYSIS REPORT







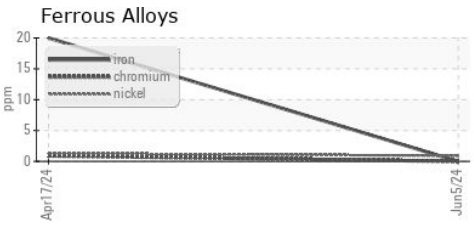


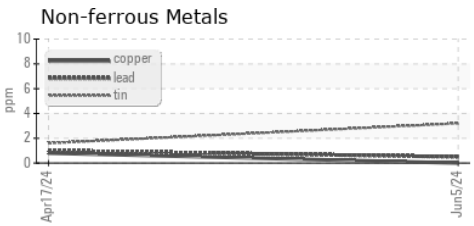
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	---
Appearance	scalar	*Visual	NORML	**HAZY**	NORML	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual	>2.26	**0.2%**	NEG	---
Free Water	scalar	*Visual		**NEG**	NEG	---

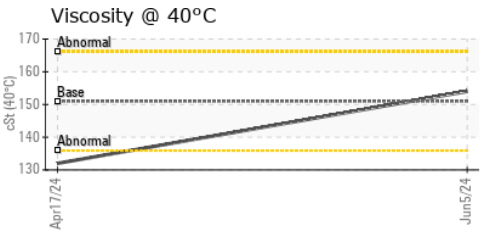
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	151	**154**	132	---
Visc @ 100°C	cSt	ASTM D445	28	**---**	24.1	---
Viscosity Index (VI)	Scale	ASTM D2270	224	**---**	215	---

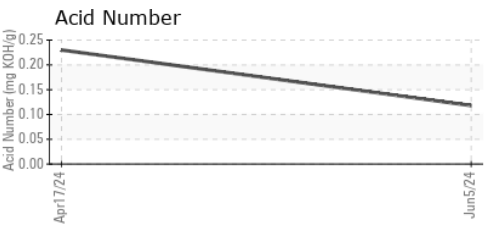
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS









Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO90004110
Lab Number : 06205584
Unique Number : 11073045
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

Received : 10 Jun 2024
Tested : 18 Jun 2024
Diagnosed : 18 Jun 2024 - Jonathan Hester

Certificate L2367

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: