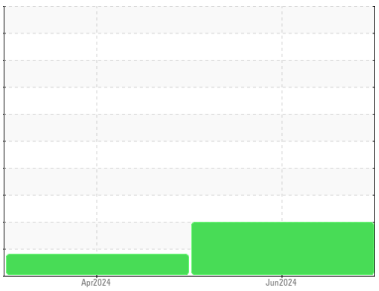
OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id
NK 112624
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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**TO90004136**	TO90004189	---
Sample Date		Client Info		**09 Jun 2024**	05 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				**ABNORMAL**	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**5**	4	---
Chromium	ppm	ASTM D5185m	>10	**<1**	<1	---
Nickel	ppm	ASTM D5185m		**0**	<1	---
Titanium	ppm	ASTM D5185m		**<1**	<1	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>25	**<1**	2	---
Lead	ppm	ASTM D5185m	>25	**1**	0	---
Copper	ppm	ASTM D5185m	>50	**<1**	<1	---
Tin	ppm	ASTM D5185m	>15	**2**	<1	---
Vanadium	ppm	ASTM D5185m		**<1**	<1	---
Cadmium	ppm	ASTM D5185m		**0**	<1	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**1**	<1	---
Barium	ppm	ASTM D5185m	0	**0**	<1	---
Molybdenum	ppm	ASTM D5185m	0	**0**	<1	---
Manganese	ppm	ASTM D5185m		**<1**	0	---
Magnesium	ppm	ASTM D5185m	0	**0**	<1	---
Calcium	ppm	ASTM D5185m	0	**0**	3	---
Phosphorus	ppm	ASTM D5185m	0	**42**	15	---
Zinc	ppm	ASTM D5185m	0	**38**	2	---
Sulfur	ppm	ASTM D5185m	0	**363**	116	---

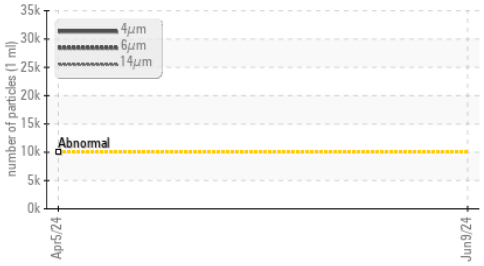
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**<1**	4	---
Sodium	ppm	ASTM D5185m		**0**	4	---
Potassium	ppm	ASTM D5185m	>20	**4**	2	---
Water	%	ASTM D6304	>2.26	**0.614**	0.181	---
ppm Water	ppm	ASTM D6304	>22600	**6148**	1816	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ **32033**	---	---
Particles >6µm		ASTM D7647	>2500	▲ **10146**	---	---
Particles >14µm		ASTM D7647	>320	▲ **656**	---	---
Particles >21µm		ASTM D7647	>80	▲ **95**	---	---
Particles >38µm		ASTM D7647	>20	**4**	---	---
Particles >71µm		ASTM D7647	>4	**0**	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **22/21/17**	---	---

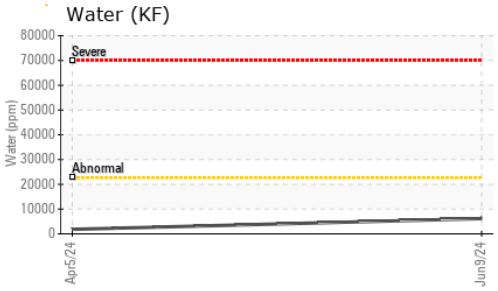
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.35**	0.11	---

OIL ANALYSIS REPORT

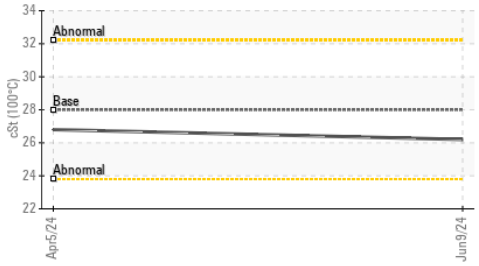
Particle Trend



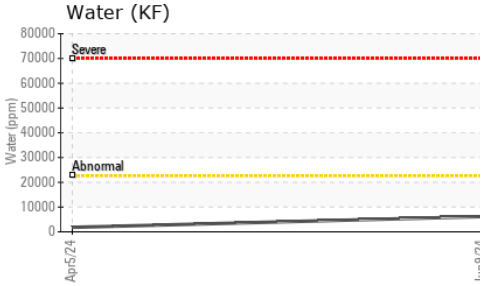
Water (KF)



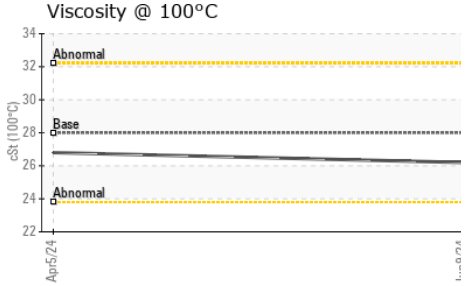
Viscosity @ 100°C



Water (KF)



Viscosity @ 100°C



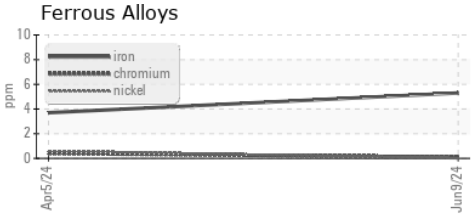
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	▲ MODER	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt	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	**151**	147	---
Visc @ 100°C	cSt	ASTM D445	28	**26.2**	26.8	---
Viscosity Index (VI)	Scale	ASTM D2270	224	**210**	220	---

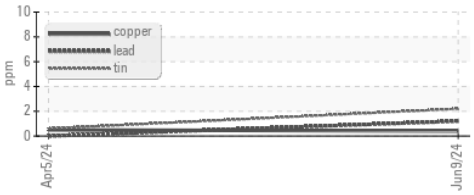
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

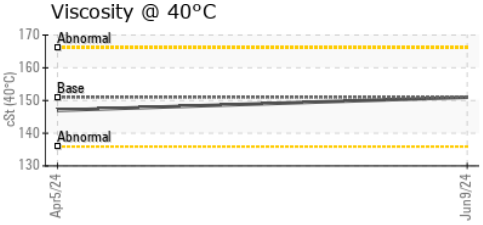
Ferrous Alloys



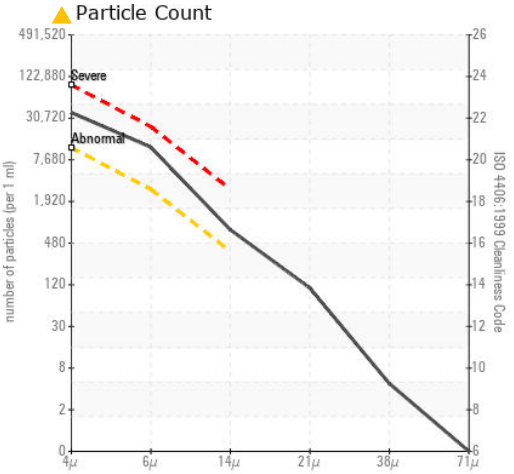
Non-ferrous Metals



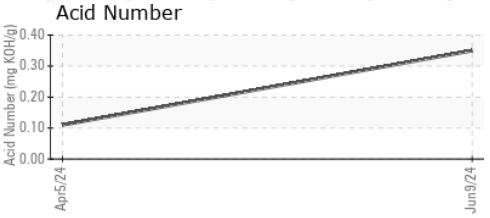
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO90004136 **Received** : 10 Jun 2024
Lab Number : 06204744 **Tested** : 13 Jun 2024
Unique Number : 11072205 **Diagnosed** : 13 Jun 2024 - Doug Bogart
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

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)

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

Report Id: CIMCAR [WUSCAR] 06204744 (Generated: 06/22/2024 14:48:24) Rev: 2
Contact/Location: CARLOS LEAL - CIMCAR