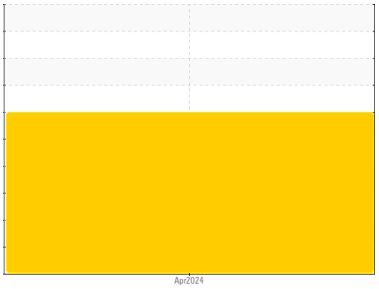
PROBLEM SUMMARY

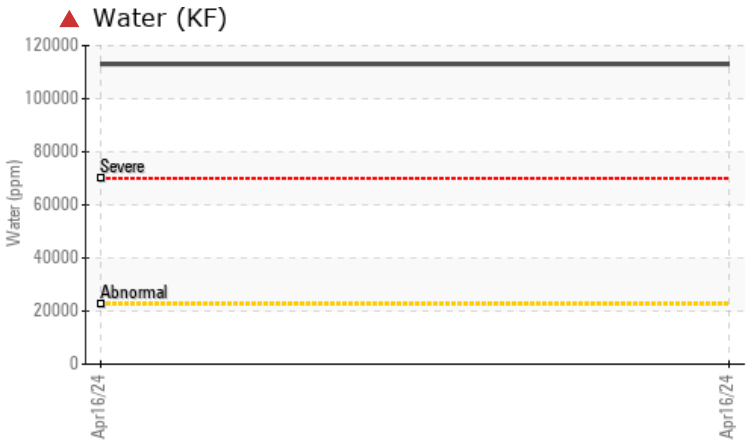
Sample Rating Trend

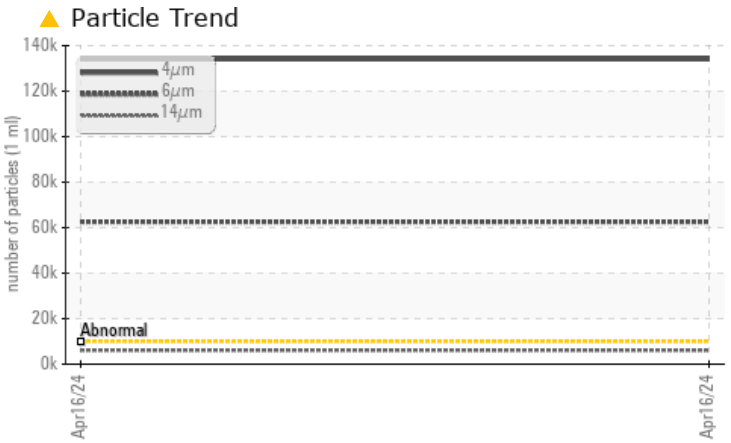


WATER

Machine Id
NK 112614
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. Please note that this is a corrected copy.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	---	---
Water	%	ASTM D6304	>2.26	▲ **11.30**	---	---
ppm Water	ppm	ASTM D6304	>22600	▲ **113046**	---	---
Particles >4µm		ASTM D7647	>10000	▲ **134016**	---	---
Particles >6µm		ASTM D7647	>2500	▲ **62560**	---	---
Particles >14µm		ASTM D7647	>320	▲ **6079**	---	---
Particles >21µm		ASTM D7647	>80	▲ **1842**	---	---
Particles >38µm		ASTM D7647	>20	▲ **206**	---	---
Particles >71µm		ASTM D7647	>4	▲ **29**	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **24/23/20**	---	---

Customer Id: CIMCAR
Sample No.: TO90004171
Lab Number: 06156057
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

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

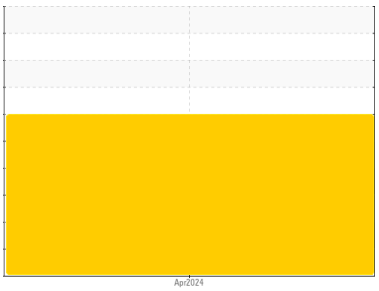
RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Water Drain-off	MISSED	May 15 2024	?	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	MISSED	May 15 2024	?	We recommend an early resample to monitor this condition.
Alert	---	---	?	Please note that this is a corrected copy.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id
NK 112614
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. 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. There is a high concentration of water 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		**TO90004171**	---	---
Sample Date		Client Info		**16 Apr 2024**	---	---
Machine Age	hrs	Client Info		**0**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**SEVERE**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**6**	---	---
Chromium	ppm	ASTM D5185m	>10	**<1**	---	---
Nickel	ppm	ASTM D5185m		**1**	---	---
Titanium	ppm	ASTM D5185m		**<1**	---	---
Silver	ppm	ASTM D5185m		**0**	---	---
Aluminum	ppm	ASTM D5185m	>25	**6**	---	---
Lead	ppm	ASTM D5185m	>25	**0**	---	---
Copper	ppm	ASTM D5185m	>50	**<1**	---	---
Tin	ppm	ASTM D5185m	>15	**1**	---	---
Vanadium	ppm	ASTM D5185m		**<1**	---	---
Cadmium	ppm	ASTM D5185m		**<1**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**11**	---	---
Barium	ppm	ASTM D5185m	0	**0**	---	---
Molybdenum	ppm	ASTM D5185m	0	**<1**	---	---
Manganese	ppm	ASTM D5185m		**<1**	---	---
Magnesium	ppm	ASTM D5185m	0	**<1**	---	---
Calcium	ppm	ASTM D5185m	0	**2**	---	---
Phosphorus	ppm	ASTM D5185m	0	**14**	---	---
Zinc	ppm	ASTM D5185m	0	**5**	---	---
Sulfur	ppm	ASTM D5185m	0	**22**	---	---

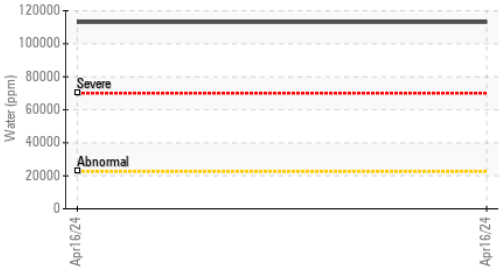
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**3**	---	---
Sodium	ppm	ASTM D5185m		**8**	---	---
Potassium	ppm	ASTM D5185m	>20	**1**	---	---
Water	%	ASTM D6304	>2.26	▲ **11.30**	---	---
ppm Water	ppm	ASTM D6304	>22600	▲ **113046**	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ **134016**	---	---
Particles >6µm		ASTM D7647	>2500	▲ **62560**	---	---
Particles >14µm		ASTM D7647	>320	▲ **6079**	---	---
Particles >21µm		ASTM D7647	>80	▲ **1842**	---	---
Particles >38µm		ASTM D7647	>20	▲ **206**	---	---
Particles >71µm		ASTM D7647	>4	▲ **29**	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **24/23/20**	---	---

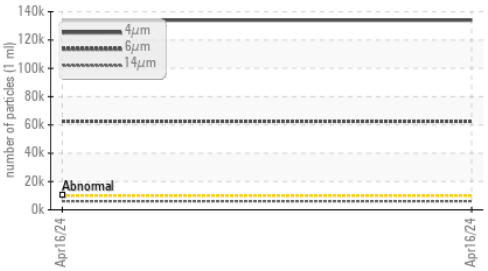
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.16**	---	---

OIL ANALYSIS REPORT

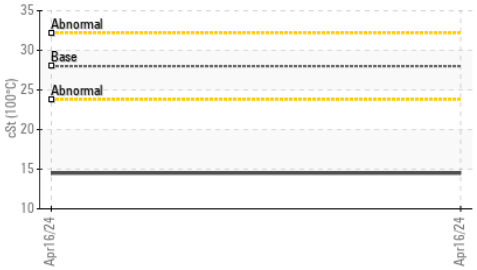
Water (KF)



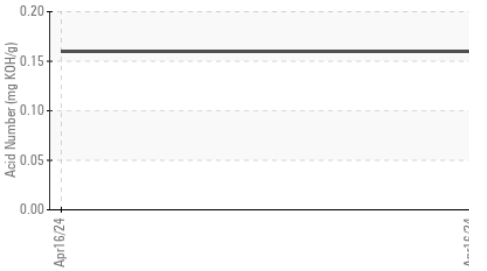
Particle Trend



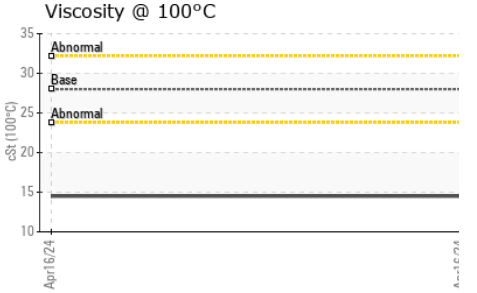
Viscosity @ 100°C



Acid Number



Viscosity @ 100°C



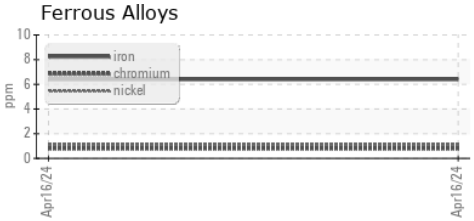
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar	*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	**134**	---	---
Visc @ 100°C	cSt	ASTM D445	28	**14.5**	---	---
Viscosity Index (VI)	Scale	ASTM D2270	224	**107**	---	---

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

GRAPHS

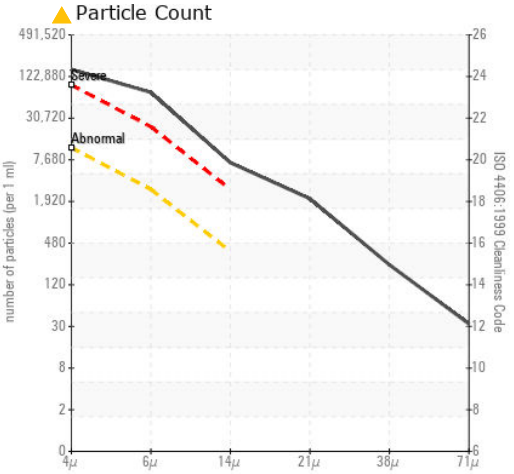
Ferrous Alloys



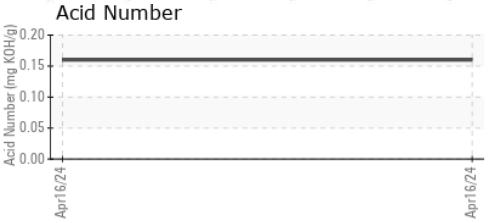
Non-ferrous Metals

Viscosity @ 40°C

Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO90004171
Lab Number : 06156057
Unique Number : 10991480
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

Received : 22 Apr 2024
Tested : 14 Jun 2024
Diagnosed : 14 Jun 2024 - Doug Bogart

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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CARLSBAD, NM
UM 88220-8923
Contact: CARLOS LEAL
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Report Id: CIMCAR [WUSCAR] 06156057 (Generated: 06/15/2024 05:45:26) Rev: 2

Contact/Location: CARLOS LEAL - CIMCAR