

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
NK 111907
Component
Compressor
Fluid
CIMARRON HB-150 (--- GAL)

DIAGNOSIS

- Recommendation**
We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.
- Wear**
The iron level is abnormal. All other component wear rates are normal.
- Contamination**
There is a high amount of silt (particulates < 14 microns in size) 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	TO90004124	---	---
Sample Date	Client Info	05 Jun 2024	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>50	▲ 60	---	---
Chromium ppm ASTM D5185m	>10	0	---	---
Nickel ppm ASTM D5185m		<1	---	---
Titanium ppm ASTM D5185m		0	---	---
Silver ppm ASTM D5185m		0	---	---
Aluminum ppm ASTM D5185m	>25	1	---	---
Lead ppm ASTM D5185m	>25	0	---	---
Copper ppm ASTM D5185m	>50	0	---	---
Tin ppm ASTM D5185m	>15	2	---	---
Vanadium ppm ASTM D5185m		<1	---	---
Cadmium ppm ASTM D5185m		<1	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m	0	<1	---	---
Barium ppm ASTM D5185m	0	<1	---	---
Molybdenum ppm ASTM D5185m	0	0	---	---
Manganese ppm ASTM D5185m		1	---	---
Magnesium ppm ASTM D5185m	0	3	---	---
Calcium ppm ASTM D5185m	0	10	---	---
Phosphorus ppm ASTM D5185m	0	153	---	---
Zinc ppm ASTM D5185m	0	24	---	---
Sulfur ppm ASTM D5185m	0	989	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>25	6	---	---
Sodium ppm ASTM D5185m		3	---	---
Potassium ppm ASTM D5185m	>20	6	---	---
Water % ASTM D6304	>2.26	1.21	---	---
ppm Water ppm ASTM D6304	>22600	12100	---	---

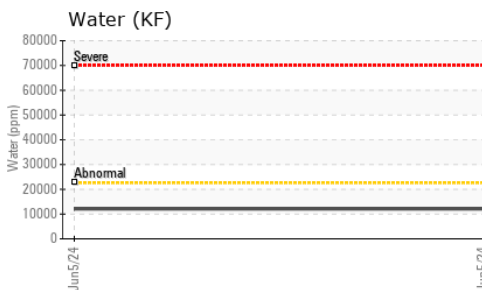
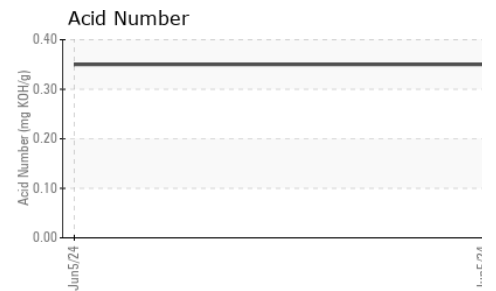
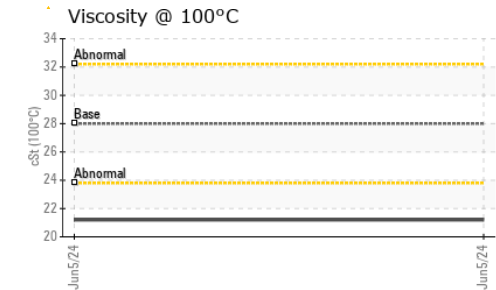
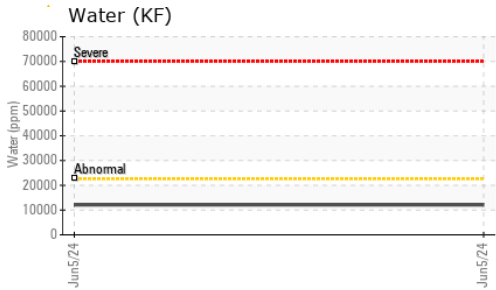
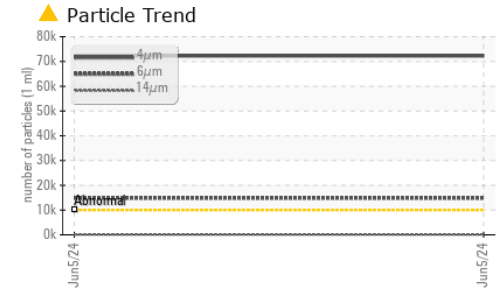
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>10000	▲ 72270	---	---
Particles >6µm ASTM D7647	>2500	▲ 14869	---	---
Particles >14µm ASTM D7647	>320	144	---	---
Particles >21µm ASTM D7647	>80	10	---	---
Particles >38µm ASTM D7647	>20	0	---	---
Particles >71µm ASTM D7647	>4	0	---	---
Oil Cleanliness ISO 4406 (c)	>20/18/15	▲ 23/21/14	---	---

FLUID DEGRADATION

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

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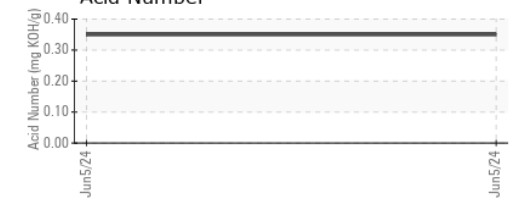
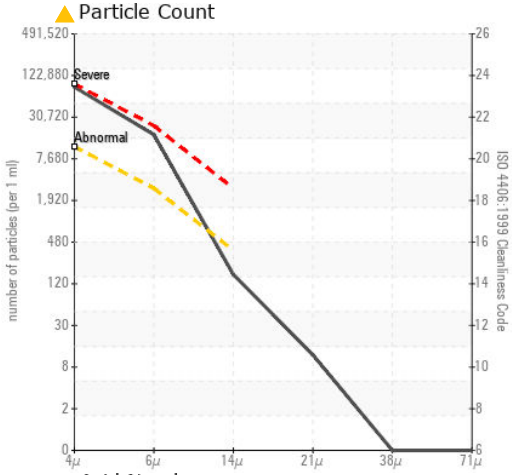
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
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	148	---	---
Visc @ 100°C	cSt	ASTM D445	28	21.2	---	---
Viscosity Index (VI)	Scale	ASTM D2270	224	168	---	---

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO90004124 **Received** : 10 Jun 2024
Lab Number : 06205580 **Tested** : 13 Jun 2024
Unique Number : 11073041 **Diagnosed** : 13 Jun 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

CIMARRON ENERGY - CARLSBAD
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 CARLSBAD, NM
 UM 88220-8923
 Contact: CARLOS LEAL
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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)

T:
F: