

OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
LEROI 112022
 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. Please note that this is a corrected copy.

Wear

All 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 | TO90003979 | --- | --- |
| Sample Date | Client Info | 12 Apr 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 | 3 | --- | --- |
| 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 | 2 | --- | --- |
| 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 | 0 | --- | --- |
| Barium ppm ASTM D5185m | 0 | 0 | --- | --- |
| Molybdenum ppm ASTM D5185m | 0 | <1 | --- | --- |
| Manganese ppm ASTM D5185m | | 0 | --- | --- |
| Magnesium ppm ASTM D5185m | 0 | <1 | --- | --- |
| Calcium ppm ASTM D5185m | 0 | 3 | --- | --- |
| Phosphorus ppm ASTM D5185m | 0 | 66 | --- | --- |
| Zinc ppm ASTM D5185m | 0 | 1 | --- | --- |
| Sulfur ppm ASTM D5185m | 0 | 847 | --- | --- |

CONTAMINANTS

| method | limit/base | current | history1 | history2 |
|---------------------------|------------|--------------|----------|----------|
| Silicon ppm ASTM D5185m | >25 | 1 | --- | --- |
| Sodium ppm ASTM D5185m | | 6 | --- | --- |
| Potassium ppm ASTM D5185m | >20 | 1 | --- | --- |
| Water % ASTM D6304 | >2.26 | 0.263 | --- | --- |
| ppm Water ppm ASTM D6304 | >22600 | 2632 | --- | --- |

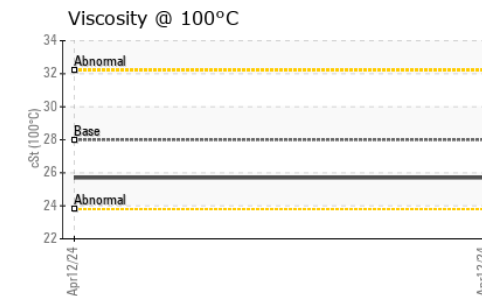
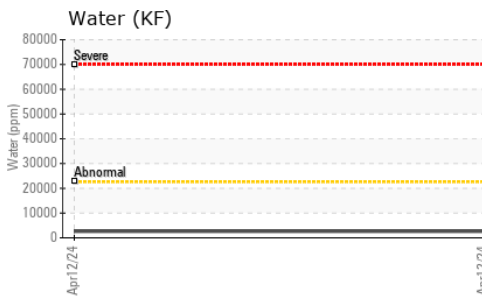
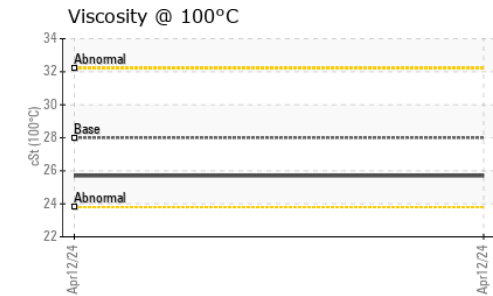
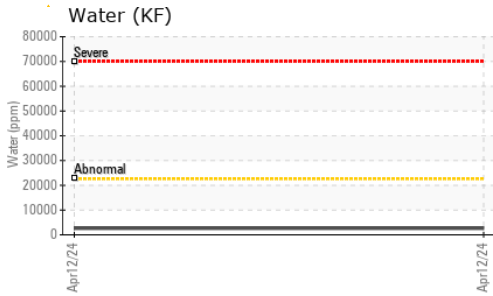
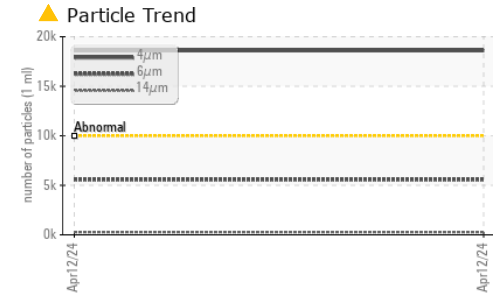
FLUID CLEANLINESS

| method | limit/base | current | history1 | history2 |
|------------------------------|------------|-----------------|----------|----------|
| Particles >4µm ASTM D7647 | >10000 | 18593 | --- | --- |
| Particles >6µm ASTM D7647 | >2500 | 5576 | --- | --- |
| Particles >14µm ASTM D7647 | >320 | 270 | --- | --- |
| Particles >21µm ASTM D7647 | >80 | 50 | --- | --- |
| Particles >38µm ASTM D7647 | >20 | 4 | --- | --- |
| Particles >71µm ASTM D7647 | >4 | 2 | --- | --- |
| Oil Cleanliness ISO 4406 (c) | >20/18/15 | 21/20/15 | --- | --- |

FLUID DEGRADATION

| method | limit/base | current | history1 | history2 |
|--------------------------------------|------------|-------------|----------|----------|
| Acid Number (AN) mg KOH/g ASTM D8045 | | 0.61 | --- | --- |

OIL ANALYSIS REPORT



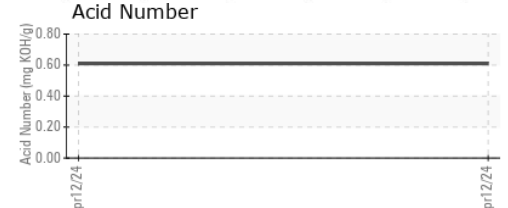
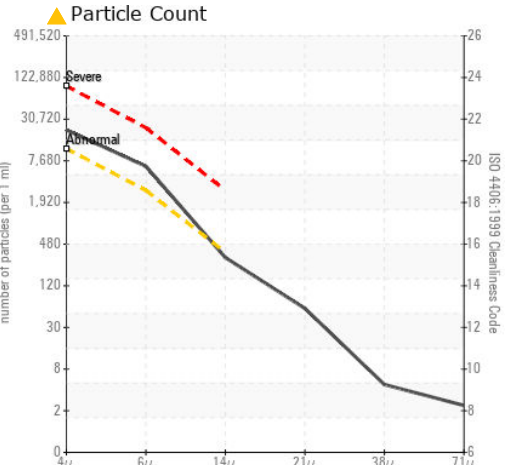
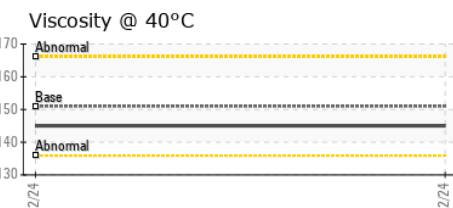
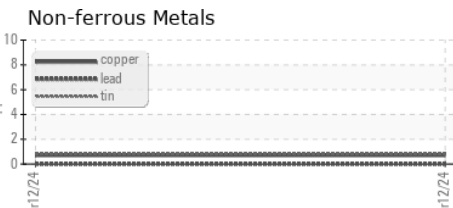
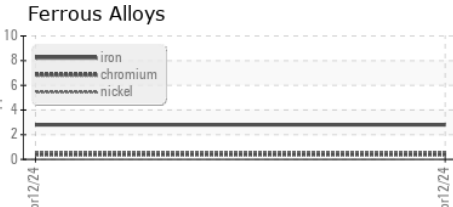
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE | --- |
| 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 | 145 | --- |
| Visc @ 100°C | cSt | ASTM D445 | 28 | 25.7 | --- |
| Viscosity Index (VI) | Scale | ASTM D2270 | 224 | 213 | --- |

SAMPLE IMAGES

| | method | limit/base | current | history1 | history2 |
|--------|--------|------------|---------|----------|----------|
| Color | | | | | |
| Bottom | | | | | |

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO90003979
Lab Number : 06156056
Unique Number : 10991479
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

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

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)