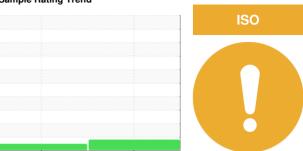


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# NK 111914 (S/N SC358655 LP1)

Compressor

CIMARRON HB-150 (--- GAL)

#### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

There is a moderate 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.

|                        |         |              | May2024    | Jun 2024    |             |          |
|------------------------|---------|--------------|------------|-------------|-------------|----------|
|                        |         |              |            |             |             |          |
| SAMPLE INFORM          | MATION  | method       | limit/base | current     | history1    | history2 |
| Sample Number          |         | Client Info  |            | TO90004546  | TO90004088  |          |
| Sample Date            |         | Client Info  |            | 18 Jun 2024 | 16 May 2024 |          |
| Machine Age            | hrs     | Client Info  |            | 0           | 0           |          |
| Oil Age                | hrs     | Client Info  |            | 0           | 0           |          |
| Oil Changed            |         | Client Info  |            | Changed     | N/A         |          |
| Sample Status          |         |              |            | ATTENTION   | NORMAL      |          |
| WEAR METALS            |         | method       | limit/base | current     | history1    | history2 |
| Iron                   | ppm     | ASTM D5185m  | >50        | 0           | 4           |          |
| Chromium               | ppm     | ASTM D5185m  | >10        | <1          | 0           |          |
| Nickel                 | ppm     | ASTM D5185m  |            | 0           | 1           |          |
| Titanium               | ppm     | ASTM D5185m  |            | 0           | 0           |          |
| Silver                 | ppm     | ASTM D5185m  |            | 0           | <1          |          |
| Aluminum               | ppm     | ASTM D5185m  | >25        | 2           | 1           |          |
| Lead                   | ppm     | ASTM D5185m  | >25        | 0           | <1          |          |
| Copper                 | ppm     | ASTM D5185m  | >50        | 0           | 0           |          |
| Tin                    | ppm     | ASTM D5185m  | >15        | 0           | <1          |          |
| Vanadium               | ppm     | ASTM D5185m  |            | 0           | <1          |          |
| Cadmium                | ppm     | ASTM D5185m  |            | 0           | 0           |          |
| ADDITIVES              |         | method       | limit/base | current     | history1    | history2 |
| Boron                  | ppm     | ASTM D5185m  | 0          | <1          | 0           |          |
| Barium                 | ppm     | ASTM D5185m  | 0          | 0           | 0           |          |
| Molybdenum             | ppm     | ASTM D5185m  | 0          | 0           | 0           |          |
| Manganese              | ppm     | ASTM D5185m  |            | 0           | <1          |          |
| Magnesium              | ppm     | ASTM D5185m  | 0          | <1          | 2           |          |
| Calcium                | ppm     | ASTM D5185m  | 0          | 0           | 4           |          |
| Phosphorus             | ppm     | ASTM D5185m  | 0          | 4           | 22          |          |
| Zinc                   | ppm     | ASTM D5185m  | 0          | 6           | 5           |          |
| Sulfur                 | ppm     | ASTM D5185m  | 0          | 55          | 350         |          |
| CONTAMINANTS           |         | method       | limit/base | current     | history1    | history2 |
| Silicon                | ppm     | ASTM D5185m  | >25        | 0           | 2           |          |
| Sodium                 | ppm     | ASTM D5185m  |            | 2           | 2           |          |
| Potassium              | ppm     | ASTM D5185m  | >20        | 2           | 5           |          |
| Water                  | %       | ASTM D6304   | >2.26      | 0.233       | 0.223       |          |
| ppm Water              | ppm     | ASTM D6304   | >22600     | 2330        | 2230        |          |
| FLUID CLEANLIN         | IESS    | method       | limit/base | current     | history1    | history2 |
| Particles >4µm         |         | ASTM D7647   | >10000     | 9319        | 6230        |          |
| Particles >6µm         |         | ASTM D7647   | >2500      | <b>2579</b> | 1464        |          |
| Particles >14µm        |         | ASTM D7647   | >320       | 89          | 47          |          |
| Particles >21µm        |         | ASTM D7647   |            | 9           | 9           |          |
| Particles >38µm        |         | ASTM D7647   | >20        | 0           | 1           |          |
| Particles >71μm        |         | ASTM D7647   | >4         | 0           | 0           |          |
| Oil Cleanliness        |         | ISO 4406 (c) | >20/18/15  | 0 20/19/14  | 20/18/13    |          |
| FLUID DEGRADA          | TION _  | method       | limit/base | current     | history1    | history2 |
| A siel Nivershau (ANI) | I/OLI/- | ACTM DODAE   |            | 0.14        | 0.10        |          |

Acid Number (AN)

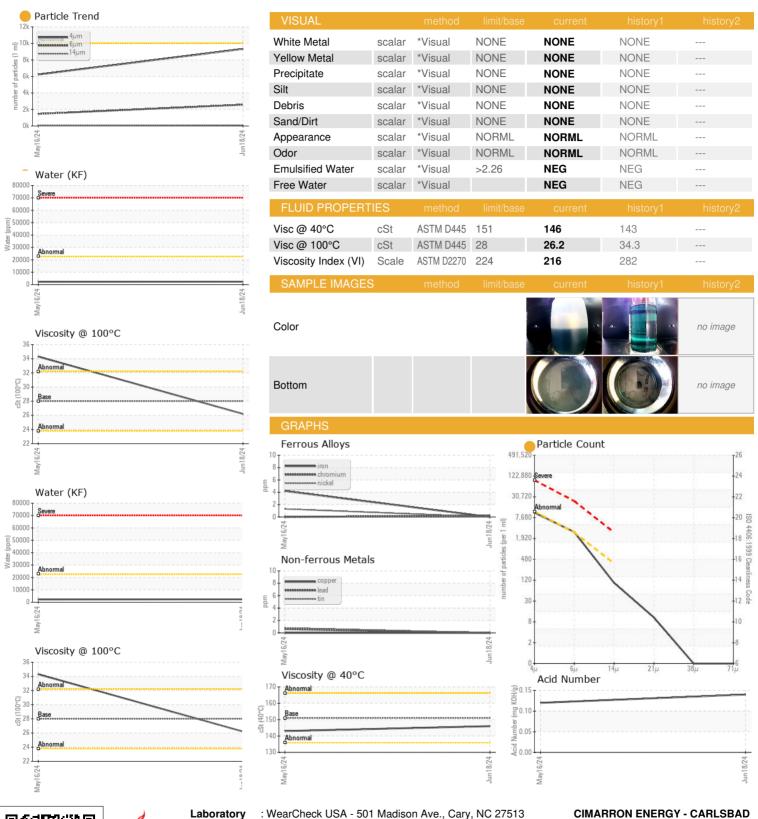
mg KOH/g ASTM D8045

0.12

0.14



## **OIL ANALYSIS REPORT**







Certificate 12367

Lab Number

Laboratory Sample No.

: TO90004546 : 06221289 Unique Number : 11099486

Received : 26 Jun 2024 **Tested** : 27 Jun 2024 Diagnosed

: 27 Jun 2024 - Don Baldridge

Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI) To discuss this sample report, contact Customer Service at 1-800-237-1369.  $^st$  - 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)

Report Id: CIMCAR [WUSCAR] 06221289 (Generated: 06/27/2024 17:26:09) Rev: 1

Contact/Location: CARLOS LEAL - CIMCAR

T:

F:

4425 GRANDI RD, UNIT F

Contact: CARLOS LEAL

cleal@cimarron.com

CARLSBAD, NM

UM 88220-8923