



OIL ANALYSIS REPORT

|                 |        |
|-----------------|--------|
| WEAR            | NORMAL |
| CONTAMINATION   | NORMAL |
| FLUID CONDITION | NORMAL |

Machine Id  
**C-16 LSSC16**  
 Component  
**Compressor**  
 Fluid  
**CHEVRON CAPELLA OIL WF 68 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>TO20000352</b>  | TO20000197  | TO20000167  |
| Sample Date    |     | Client Info |           | <b>12 Jun 2024</b> | 31 May 2023 | 25 Jan 2023 |
| Machine Age    | hrs | Client Info |           | <b>16839</b>       | 11358       | 9470        |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>N/A</b>         | Not Changd  | Not Changd  |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | Not Changd  | Not Changd  |
| Sample Status  |     |             |           | <b>NORMAL</b>      | MARGINAL    | NORMAL      |

**WEAR**

All component wear rates are normal.

|              |        |             |      |              |      |      |
|--------------|--------|-------------|------|--------------|------|------|
| Iron         | ppm    | ASTM D5185m | >50  | <b>&lt;1</b> | 5    | 6    |
| Chromium     | ppm    | ASTM D5185m | >10  | <b>0</b>     | 0    | 0    |
| Nickel       | ppm    | ASTM D5185m |      | <b>&lt;1</b> | 0    | 0    |
| Titanium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| Aluminum     | ppm    | ASTM D5185m | >25  | <b>0</b>     | <1   | 0    |
| Lead         | ppm    | ASTM D5185m | >25  | <b>0</b>     | 0    | 0    |
| Copper       | ppm    | ASTM D5185m | >50  | <b>0</b>     | 0    | <1   |
| Tin          | ppm    | ASTM D5185m | >15  | <b>0</b>     | <1   | 0    |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |

**CONTAMINATION**

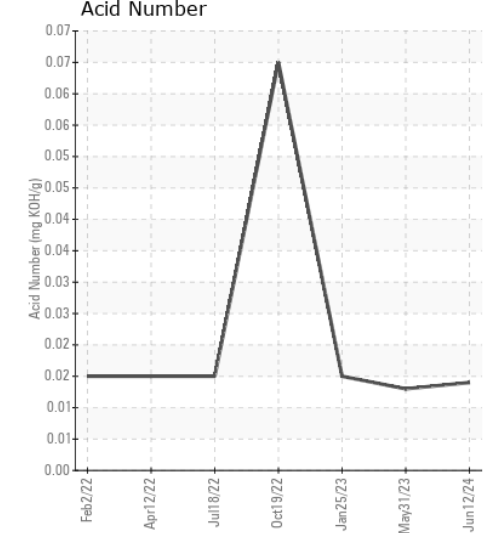
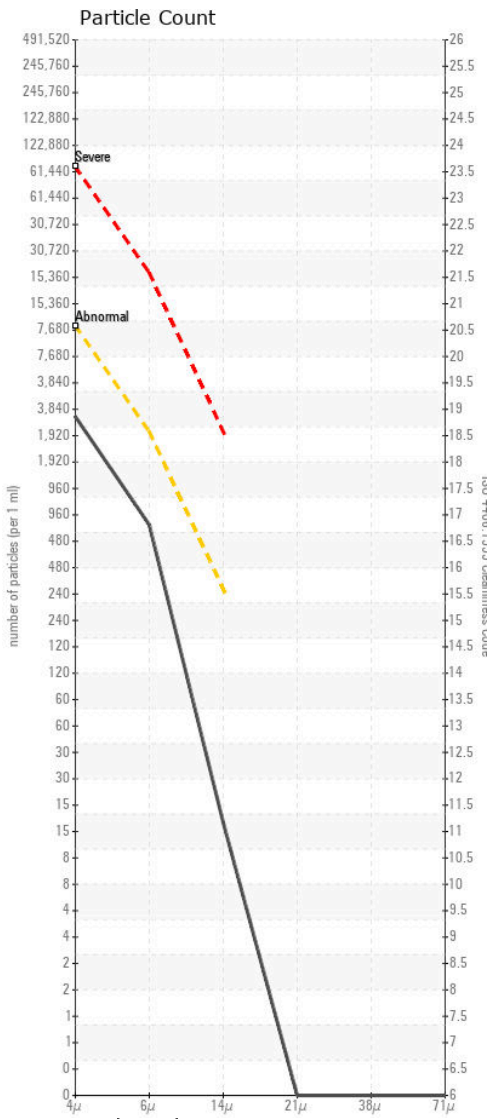
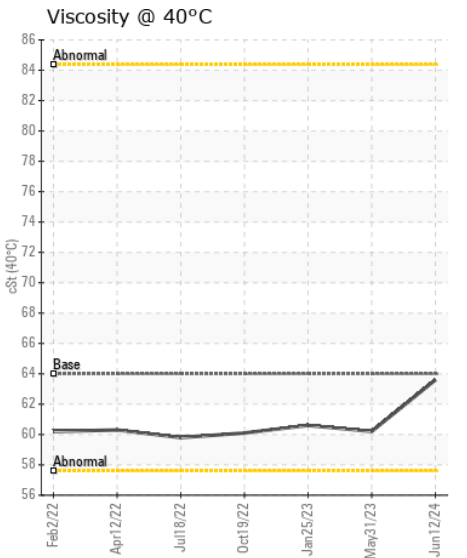
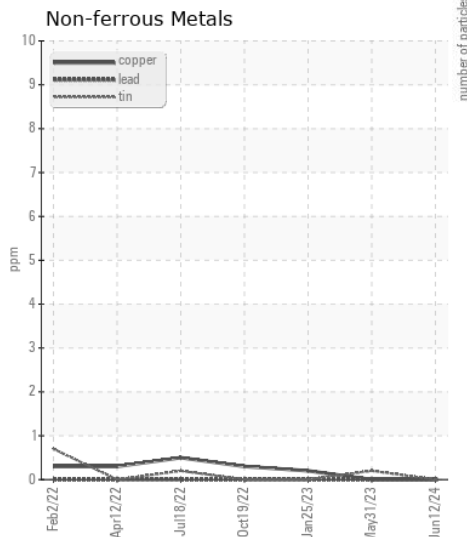
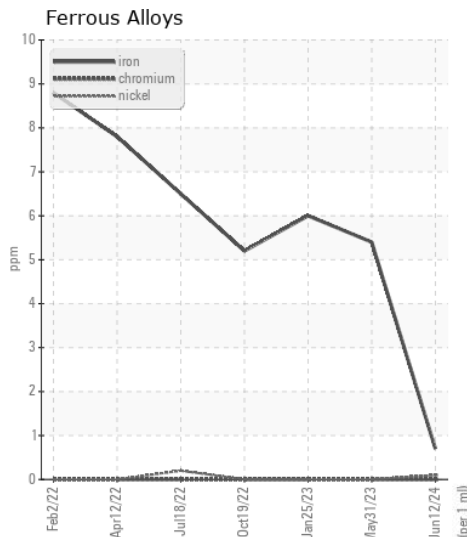
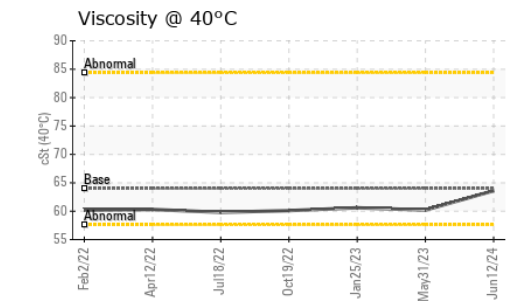
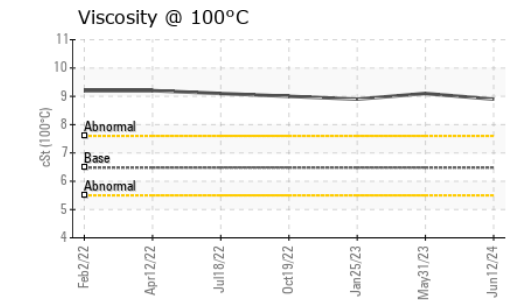
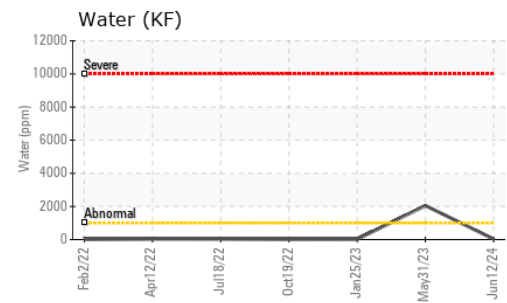
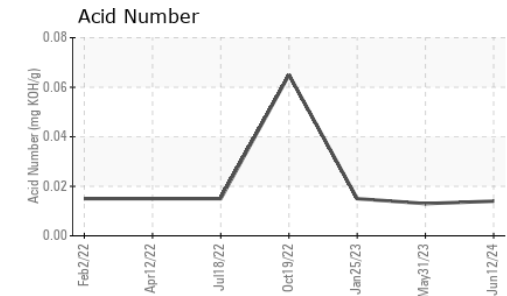
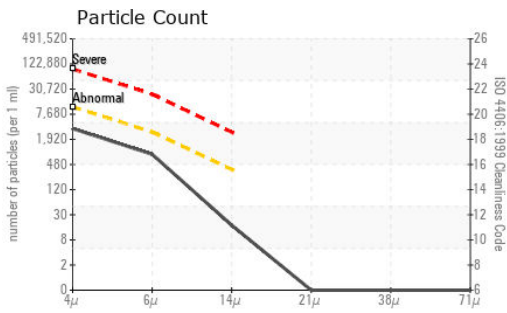
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

|                  |        |              |           |                 |          |          |
|------------------|--------|--------------|-----------|-----------------|----------|----------|
| Silicon          | ppm    | ASTM D5185m  | >25       | <b>1</b>        | <1       | 2        |
| Potassium        | ppm    | ASTM D5185m  | >20       | <b>&lt;1</b>    | <1       | 0        |
| Water            | %      | ASTM D6304   | >0.1      | <b>0.003</b>    | ▲ 0.205  | 0.001    |
| ppm Water        | ppm    | ASTM D6304   | >1000     | <b>28</b>       | ▲ 2050   | 14.1     |
| Particles >4µm   |        | ASTM D7647   | >10000    | <b>3045</b>     | 6966     | 6809     |
| Particles >6µm   |        | ASTM D7647   | >2500     | <b>739</b>      | 1570     | 2187     |
| Particles >14µm  |        | ASTM D7647   | >320      | <b>15</b>       | 37       | 15       |
| Particles >21µm  |        | ASTM D7647   | >80       | <b>0</b>        | 4        | 1        |
| Particles >38µm  |        | ASTM D7647   | >20       | <b>0</b>        | 1        | 0        |
| Particles >71µm  |        | ASTM D7647   | >4        | <b>0</b>        | 0        | 0        |
| Oil Cleanliness  |        | ISO 4406 (c) | >20/18/15 | <b>19/17/11</b> | 20/18/12 | 20/18/11 |
| Silt             | scalar | *Visual      | NONE      | <b>NONE</b>     | NONE     | NONE     |
| Debris           | scalar | *Visual      | NONE      | <b>LIGHT</b>    | LIGHT    | NONE     |
| Sand/Dirt        | scalar | *Visual      | NONE      | <b>NONE</b>     | NONE     | NONE     |
| Appearance       | scalar | *Visual      | NORML     | <b>NORML</b>    | NORML    | NORML    |
| Odor             | scalar | *Visual      | NORML     | <b>NORML</b>    | NORML    | NORML    |
| Emulsified Water | scalar | *Visual      | >0.1      | <b>NEG</b>      | NEG      | NEG      |

**FLUID CONDITION**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

|                      |          |             |      |              |       |       |
|----------------------|----------|-------------|------|--------------|-------|-------|
| Sodium               | ppm      | ASTM D5185m |      | <b>2</b>     | <1    | 0     |
| Boron                | ppm      | ASTM D5185m |      | <b>0</b>     | 0     | 0     |
| Barium               | ppm      | ASTM D5185m |      | <b>0</b>     | 2     | 0     |
| Molybdenum           | ppm      | ASTM D5185m |      | <b>0</b>     | 0     | 0     |
| Manganese            | ppm      | ASTM D5185m |      | <b>&lt;1</b> | <1    | 0     |
| Magnesium            | ppm      | ASTM D5185m | 0    | <b>0</b>     | 4     | 0     |
| Calcium              | ppm      | ASTM D5185m |      | <b>0</b>     | 4     | 0     |
| Phosphorus           | ppm      | ASTM D5185m |      | <b>0</b>     | 6     | 4     |
| Zinc                 | ppm      | ASTM D5185m |      | <b>0</b>     | 19    | 1     |
| Sulfur               | ppm      | ASTM D5185m |      | <b>20</b>    | 25    | 9     |
| Acid Number (AN)     | mg KOH/g | ASTM D8045  |      | <b>0.014</b> | 0.013 | 0.015 |
| Visc @ 40°C          | cSt      | ASTM D445   | 64.0 | <b>63.6</b>  | 60.2  | 60.6  |
| Visc @ 100°C         | cSt      | ASTM D445   | 6.48 | <b>8.9</b>   | 9.1   | 8.9   |
| Viscosity Index (VI) | Scale    | ASTM D2270  | 12   | <b>114</b>   | 129   | 122   |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO20000352 **Received** : 02 Jul 2024  
**Lab Number** : 06226795 **Tested** : 03 Jul 2024  
**Unique Number** : 11110288 **Diagnosed** : 05 Jul 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.

\* - 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)

**DORADA FOODS**  
 2000 HALL BLVD  
 PONCA CITY, OK  
 US 73135  
 Contact: RYAN HALE  
 r hale@doradafoods.com

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F: