

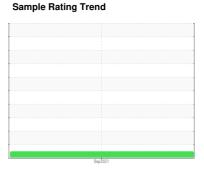
# **OIL ANALYSIS REPORT**



# CATERPILLAR 30-099

Component New (Unused) Oil

PETRO CANADA BIO





## DIAGNOSIS

#### Recommendation

This is the baseline readout on this new (unused) oil. The fluid is suitable for service.

#### Wear

{not applicable}

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. There is no indication of any contamination in the new (unused) oil.

#### **Fluid Condition**

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

| 46 ( GAL)     |        |                 |            | Sep2021     |          |          |
|---------------|--------|-----------------|------------|-------------|----------|----------|
| SAMPLE INFOR  | MATION | method          | limit/base | current     | history1 | history2 |
| Sample Number |        | Client Info     |            | PC0052387   |          |          |
| Sample Date   |        | Client Info     |            | 04 Sep 2021 |          |          |
| Machine Age   | hrs    | Client Info     |            | 0           |          |          |
| Oil Age       | hrs    | Client Info     |            | 0           |          |          |
| Oil Changed   |        | Client Info     |            | Not Changd  |          |          |
| Sample Status |        |                 |            | NORMAL      |          |          |
| WEAR META     | LS     | method          | limit/base | current     | history1 | history2 |
| Iron          | ppm    | ASTM D5185(m)   | >5         | 0           |          |          |
| Chromium      | ppm    | ASTM D5185(m)   | >5         | 0           |          |          |
| Nickel        | ppm    | ASTM D5185(m)   | >5         | <1          |          |          |
| Titanium      | ppm    | ASTM D5185(m)   |            | 0           |          |          |
| Silver        | ppm    | ASTM D5185(m)   | >5         | <1          |          |          |
| Aluminum      | ppm    | ASTM D5185(m)   | >5         | 0           |          |          |
| Lead          | ppm    | ASTM D5185(m)   | >5         | 0           |          |          |
| Copper        | ppm    | ASTM D5185(m)   | >5         | <1          |          |          |
| Tin           | ppm    | ASTM D5185(m)   | >5         | 0           |          |          |
| Antimony      | ppm    | ASTM D5185(m)   |            | 0           |          |          |
| Vanadium      | ppm    | ASTM D5185(m)   |            | 0           |          |          |
| Beryllium     | ppm    | ASTM D5185(m)   |            | 0           |          |          |
| Cadmium       | ppm    | ASTM D5185(m)   |            | 0           |          |          |
| ADDITIVES     |        | method          | limit/base | current     | history1 | history2 |
| Boron         | ppm    | ASTM D5185(m)   |            | <1          |          |          |
| Barium        | ppm    | ASTM D5185(m)   |            | 0           |          |          |
| Molybdenum    | ppm    | ASTM D5185(m)   |            | 0           |          |          |
| Manganese     | ppm    | ASTM D5185(m)   |            | 0           |          |          |
| Magnesium     | ppm    | ASTM D5185(m)   |            | <1          |          |          |
| Calcium       | ppm    | ASTM D5185(m)   |            | 5           |          |          |
| Phosphorus    | ppm    | ASTM D5185(m)   |            | 670         |          |          |
| Zinc          | ppm    | ASTM D5185(m)   |            | 5           |          |          |
| Sulfur        | ppm    | ASTM D5185(m)   |            | 1378        |          |          |
| Lithium       | ppm    | ASTM D5185(m)   |            | <1          |          |          |
| CONTAMINAL    | NTS    | method          | limit/base | current     | history1 | history2 |
| Silicon       | ppm    | ASTM D5185(m)   | >15        | 0           |          |          |
| Sodium        | ppm    | ASTM D5185(m)   |            | 0           |          |          |
| Potassium     | ppm    | ASTM D5185(m)   | >20        | <1          |          |          |
| INFRA-RED     |        | method          | limit/base | current     | history1 | history2 |
| Soot %        | %      | ASTM D7844*     |            | 0           |          |          |
| Nitration     | Abs/cm | ASTM D7624*     |            | 2.1         |          |          |
| Outfathers    | AI / J | A OTA A DITALES |            |             |          |          |

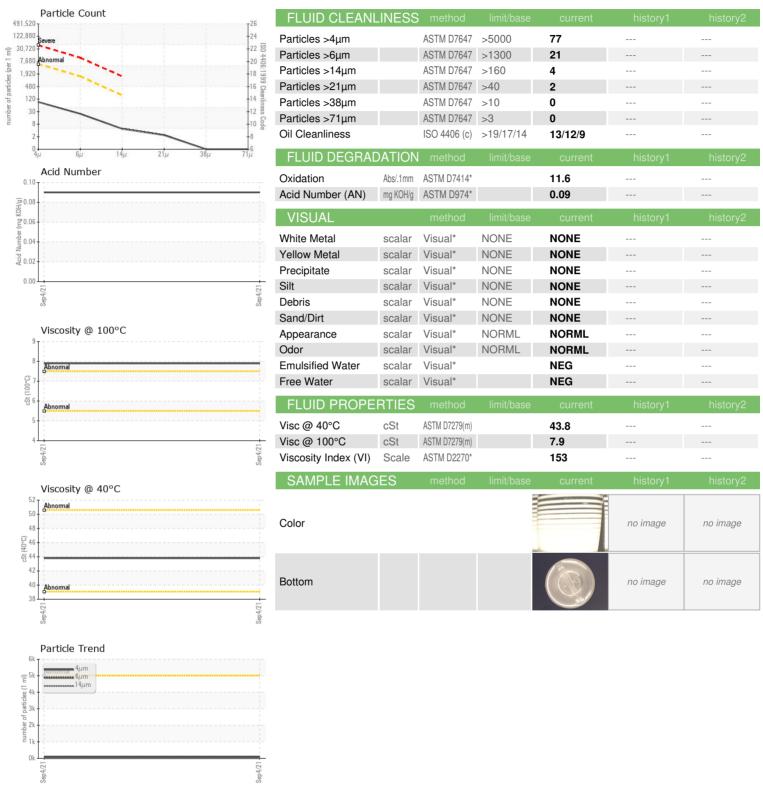
Sulfation

Abs/.1mm ASTM D7415\*

19.4



# OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number **Unique Number** 

: PC0052387 : 02444280

: 5279812

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 15 Sep 2021 Diagnosed

: 16 Sep 2021 Diagnostician : Kevin Marson

LES ENTREPRISES PEC 152 CHEMIN DE SAINT-EDGAR

NEW RICHMOND, QC CA G0C 2B0

Test Package : IND 2 ( Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TAN Man, VI ) Contact: Service Manager To discuss this sample report, contact Customer Service at 1-800-268-2131.

info@lepec.ca T: (418)534-3777

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

F: