

# **OIL ANALYSIS REPORT**

## Sample Rating Trend



Machine Id

MCI 2058

Component **Diesel Engine** 

**PURUS SYNTHETIC BLEND 10W30 (--- GA** 

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

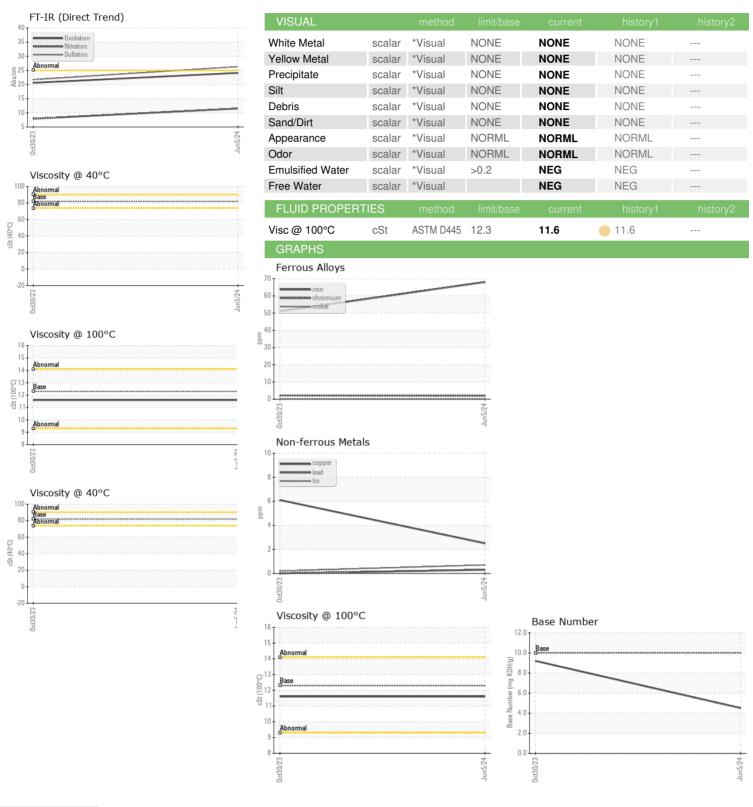
## **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| L)               |          |             | 0et2023    | Jun <b>2</b> 024 |             |          |
|------------------|----------|-------------|------------|------------------|-------------|----------|
| SAMPLE INFORM    | MATION   | method      | limit/base | current          | history1    | history2 |
| Sample Number    |          | Client Info |            | WC0859096        | WC0858998   |          |
| Sample Date      |          | Client Info |            | 05 Jun 2024      | 30 Oct 2023 |          |
| Machine Age      | mls      | Client Info |            | 93800            | 14797       |          |
| Oil Age          | mls      | Client Info |            | 20000            | 0           |          |
| Oil Changed      |          | Client Info |            | Changed          | N/A         |          |
| Sample Status    |          |             |            | NORMAL           | ATTENTION   |          |
| CONTAMINATIO     | Ν        | method      | limit/base | current          | history1    | history2 |
| Fuel             |          | WC Method   | >3.0       | <1.0             | 0.3         |          |
| Water            |          | WC Method   | >0.2       | NEG              | NEG         |          |
| Glycol           |          | WC Method   |            | NEG              | NEG         |          |
| WEAR METALS      |          | method      | limit/base | current          | history1    | history2 |
| Iron             | ppm      | ASTM D5185m | >90        | 68               | 51          |          |
| Chromium         | ppm      | ASTM D5185m | >20        | 2                | 2           |          |
| Nickel           | ppm      | ASTM D5185m | >2         | 0                | <1          |          |
| Titanium         | ppm      | ASTM D5185m | >2         | <1               | <1          |          |
| Silver           | ppm      | ASTM D5185m | >2         | 0                | 0           |          |
| Aluminum         | ppm      | ASTM D5185m | >20        | 3                | 3           |          |
| Lead             | ppm      | ASTM D5185m | >40        | <1               | 0           |          |
| Copper           | ppm      | ASTM D5185m | >330       | 2                | 6           |          |
| Tin              | ppm      | ASTM D5185m | >15        | <1               | <1          |          |
| Vanadium         | ppm      | ASTM D5185m |            | <1               | <1          |          |
| Cadmium          | ppm      | ASTM D5185m |            | 0                | 0           |          |
| ADDITIVES        |          | method      | limit/base | current          | history1    | history2 |
| Boron            | ppm      | ASTM D5185m |            | 14               | 51          |          |
| Barium           | ppm      | ASTM D5185m |            | 0                | 4           |          |
| Molybdenum       | ppm      | ASTM D5185m |            | 71               | 41          |          |
| Manganese        | ppm      | ASTM D5185m |            | 1                | 2           |          |
| Magnesium        | ppm      | ASTM D5185m |            | 968              | 572         |          |
| Calcium          | ppm      | ASTM D5185m |            | 1163             | 1517        |          |
| Phosphorus       | ppm      | ASTM D5185m |            | 1036             | 763         |          |
| Zinc             | ppm      | ASTM D5185m |            | 1294             | 878         |          |
| Sulfur           | ppm      | ASTM D5185m |            | 3586             | 2380        |          |
| CONTAMINANTS     |          | method      | limit/base | current          | history1    | history2 |
| Silicon          | ppm      | ASTM D5185m | >25        | 9                | 18          |          |
| Sodium           | ppm      | ASTM D5185m |            | 4                | 4           |          |
| Potassium        | ppm      | ASTM D5185m | >20        | 9                | 4           |          |
| INFRA-RED        |          | method      | limit/base | current          | history1    | history2 |
| Soot %           | %        | *ASTM D7844 | >6         | 0.7              | 0.3         |          |
| Nitration        | Abs/cm   | *ASTM D7624 | >20        | 11.5             | 7.9         |          |
| Sulfation        | Abs/.1mm | *ASTM D7415 | >30        | 26.3             | 21.7        |          |
| FLUID DEGRADA    | NOITA    | method      | limit/base | current          | history1    | history2 |
| Oxidation        | Abs/.1mm | *ASTM D7414 | >25        | 24.1             | 20.6        |          |
| Base Number (BN) | mg KOH/g | ASTM D2896  | 10         | 4.5              | 9.2         |          |



# **OIL ANALYSIS REPORT**





Certificate 12367

Laboratory Sample No.

: WC0859096 Lab Number : 06208321

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** Unique Number : 11075782 Diagnosed

: 12 Jun 2024 : 14 Jun 2024

: 14 Jun 2024 - Don Baldridge

BILLINGS, MT US 59101 Contact: J. DAY jday@jeffersonlines.com

**JEFFERSON LINES** 

1830 4TH AVE N

Test Package : FLEET ( Additional Tests: KV40 ) 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)

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