

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Machine Id **707389**

Component **Diesel Engine**

PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

A Wear

Piston, ring and cylinder wear is indicated.

Contamination

There is no indication of any contamination in the oil.

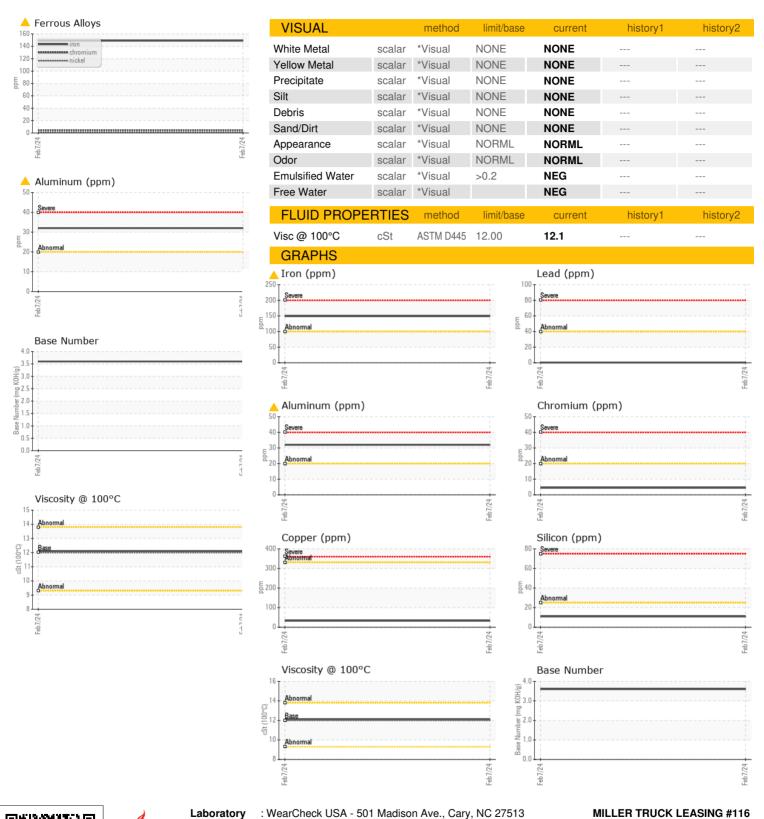
Fluid Condition

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

| iAL) | | | | Feb2024 | | |
|-------------------|-----------|--------------|------------|--------------|----------|----------|
| SAMPLE INFO | RMATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | PCA0118679 | | |
| Sample Date | | Client Info | | 07 Feb 2024 | | |
| Machine Age | mls | Client Info | | 445651 | | |
| Oil Age | mls | Client Info | | 0 | | |
| Oil Changed | | Client Info | | N/A | | |
| Sample Status | | | | ABNORMAL | | |
| CONTAMINA | TION | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >5 | <1.0 | | |
| Water | | WC Method | >0.2 | NEG | | |
| Glycol | | WC Method | | NEG | | |
| WEAR META | IS | method | limit/base | current | history1 | history2 |
| ron | | ASTM D5185m | >100 | <u>▲</u> 149 | | |
| Chromium | ppm | ASTM D5185m | >20 | 4 | | |
| Vickel | ppm | ASTM D5185m | >4 | 1 | | |
| Titanium | ppm | ASTM D5185m | 7 4 | <1 | | |
| Silver | ppm | ASTM D5185m | >3 | 0 | | |
| Aluminum | ppm | ASTM D5185m | >20 | ∆ 32 | | |
| _ead | ppm | ASTM D5185m | >40 | <1 | | |
| Copper | ppm | ASTM D5185m | >330 | 33 | | |
| Tin | ppm | ASTM D5185m | >15 | 2 | | |
| /anadium | ppm | ASTM D5185m | >10 | 0 | | |
| Cadmium | ppm | ASTM D5185m | | 0 | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 2 | 4 | | |
| Barium | ppm | ASTM D5185m | | 0 | | |
| Molybdenum | ppm | ASTM D5185m | 50 | 71 | | |
| Manganese | ppm | ASTM D5185m | | 2 | | |
| Magnesium | ppm | ASTM D5185m | 950 | 882 | | |
| Calcium | ppm | ASTM D5185m | 1050 | 1135 | | |
| Phosphorus | ppm | ASTM D5185m | 995 | 1042 | | |
| Zinc | ppm | ASTM D5185m | | 1256 | | |
| Sulfur | ppm | ASTM D5185m | | 2436 | | |
| CONTAMINA | NTS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 11 | | |
| Sodium | ppm | ASTM D5185m | | 5 | | |
| Potassium | ppm | ASTM D5185m | >20 | 8 | | |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >3 | 0.9 | | |
| Vitration | Abs/cm | *ASTM D7624 | >20 | 14.9 | | |
| Sulfation | Abs/.1mm | *ASTM D7415 | | 26.7 | | |
| FLUID DEGRA | ADATION | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 28.7 | | |
| Base Number (BN) | | ASTM D2896 | 720 | 3.6 | | |
| Dasc Namber (DIV) | ing Norty | AOTIVI DZ030 | | 3.0 | | |



OIL ANALYSIS REPORT







Certificate L2367

Laboratory

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06107194

: PCA0118679

Received **Tested Unique Number** : 10910691

Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

: 04 Mar 2024 : 05 Mar 2024

: 06 Mar 2024 - Sean Felton

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1197 NORTH MAIN ROAD

VINELAND, NJ

US 08360

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)