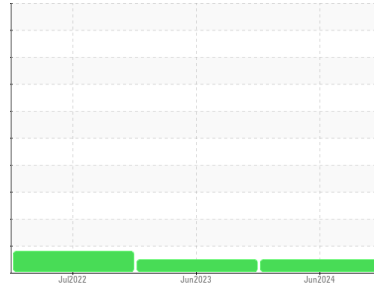


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
624561
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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 suitable for further service.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | | PCA0121072 | PCA0097741 | PCA0075990 |
| Sample Date | Client Info | | | 08 Jun 2024 | 13 Jun 2023 | 01 Jul 2022 |
| Machine Age | mls | Client Info | | 29856 | 0 | 34134 |
| Oil Age | mls | Client Info | | 10000 | 0 | 34134 |
| Oil Changed | Client Info | | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | ABNORMAL |

| CONTAMINATION | | method | limit/base | current | history1 | history2 |
|---------------|-----------|--------|------------|----------------|----------|----------|
| Fuel | WC Method | >5 | | <1.0 | <1.0 | <1.0 |
| Water | WC Method | >0.2 | | NEG | NEG | NEG |
| Glycol | WC Method | | | NEG | NEG | NEG |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m | >100 | 54 | 64 | 80 |
| Chromium | ppm | ASTM D5185m | >20 | 2 | 3 | 5 |
| Nickel | ppm | ASTM D5185m | >4 | <1 | <1 | 2 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | >3 | <1 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >20 | 13 | 21 | 43 |
| Lead | ppm | ASTM D5185m | >40 | <1 | 0 | 5 |
| Copper | ppm | ASTM D5185m | >330 | 36 | 62 | ▲ 460 |
| Tin | ppm | ASTM D5185m | >15 | 2 | 3 | 12 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | <1 | 0 | 0 |

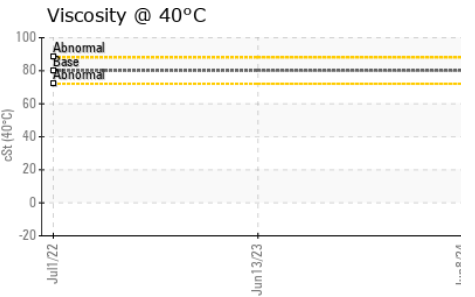
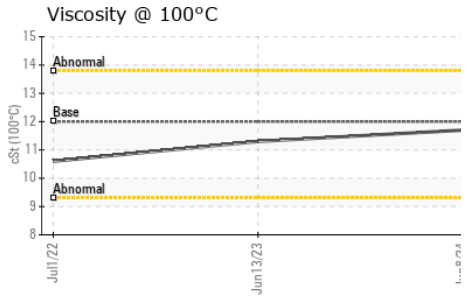
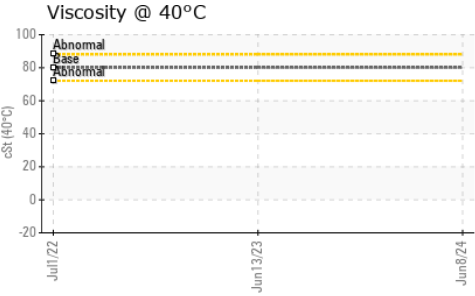
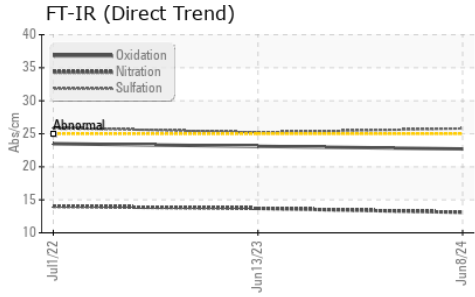
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | 2 | 15 | 5 | 24 |
| Barium | ppm | ASTM D5185m | 0 | <1 | 12 | 0 |
| Molybdenum | ppm | ASTM D5185m | 50 | 65 | 67 | 7 |
| Manganese | ppm | ASTM D5185m | 0 | 1 | 2 | 4 |
| Magnesium | ppm | ASTM D5185m | 950 | 867 | 974 | 711 |
| Calcium | ppm | ASTM D5185m | 1050 | 1472 | 1262 | 1460 |
| Phosphorus | ppm | ASTM D5185m | 995 | 1019 | 996 | 715 |
| Zinc | ppm | ASTM D5185m | 1180 | 1293 | 1281 | 825 |
| Sulfur | ppm | ASTM D5185m | 2600 | 2262 | 2831 | 3220 |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m | >25 | 7 | 5 | 8 |
| Sodium | ppm | ASTM D5185m | | <1 | 4 | 7 |
| Potassium | ppm | ASTM D5185m | >20 | 32 | 61 | 126 |

| INFRA-RED | | method | limit/base | current | history1 | history2 |
|-----------|----------|-------------|------------|-------------|----------|----------|
| Soot % | % | *ASTM D7844 | >3 | 1.5 | 1.4 | 1.1 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 13.1 | 13.7 | 14.0 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 25.8 | 25.2 | 25.9 |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|-------------------|----------|-------------|------------|-------------|----------|----------|
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 22.7 | 23.1 | 23.5 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 5.1 | 5.9 | 6.6 |

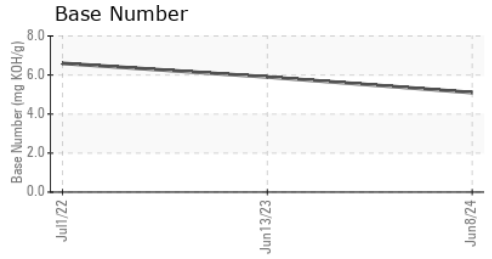
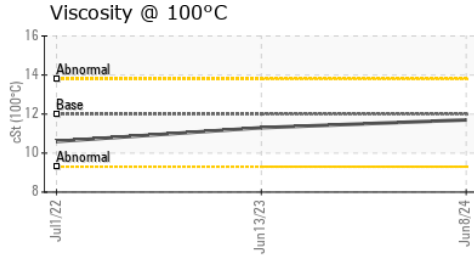
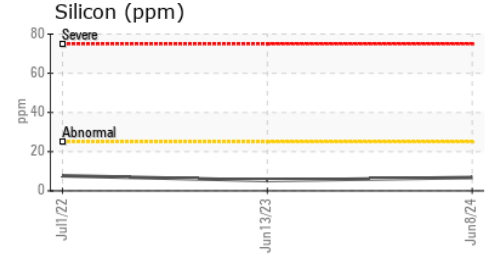
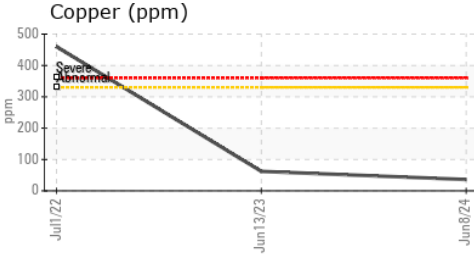
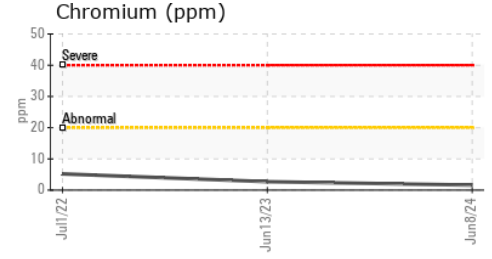
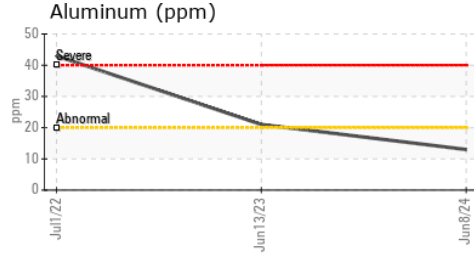
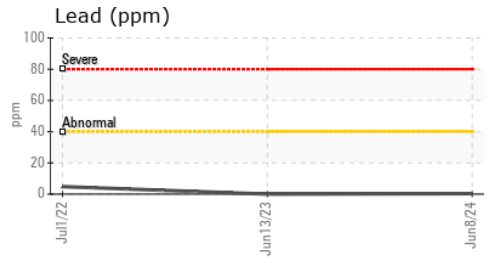
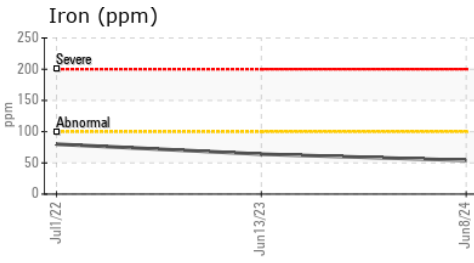
OIL ANALYSIS REPORT



| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|-----------------|-------------|----------|----------|
| Visc @ 100°C | cSt | ASTM D445 12.00 | 11.7 | 11.3 | 10.6 |

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0121072 **Received** : 02 Jul 2024
Lab Number : 06225960 **Tested** : 05 Jul 2024
Unique Number : 11109453 **Diagnosed** : 05 Jul 2024 - Jonathan Hester
Test Package : MOB 1 (Additional Tests: TBN, KV40)

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 LOGAN TOWNSHIP, NJ
 US 08085
 Contact: ED DAVIS
 edavis@millertransgroup.com
 T: (856)214-3521
 F: (856)214-3663

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)