



OIL ANALYSIS REPORT

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

Machine Id
FORD 800 (S/N 1FM5K8D80EGC13894)

Component
Gasoline Engine

Fluid
PETRO CANADA SUPREME 5W20 MOTOR OIL (6 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | PCA0117695 | PCA0100394 | PCA0096248 |
| Sample Date | | Client Info | | 21 Feb 2024 | 19 Sep 2023 | 18 Apr 2023 |
| Machine Age | mls | Client Info | | 119851 | 117563 | 114547 |
| Oil Age | mls | Client Info | | 2288 | 3016 | 2070 |
| Filter Age | mls | Client Info | | 2288 | 3016 | 2070 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >150 | 4 | 4 | 5 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >5 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >40 | 2 | <1 | 1 |
| Lead | ppm | ASTM D5185m | >50 | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >155 | 6 | 5 | 4 |
| Tin | ppm | ASTM D5185m | >10 | <1 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

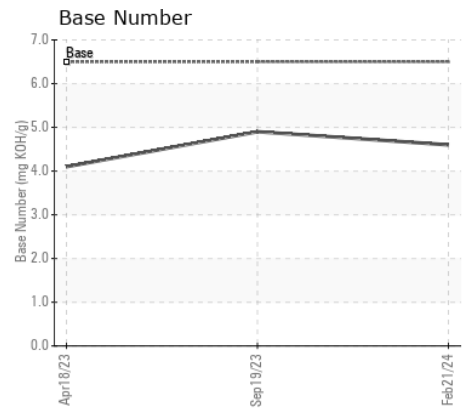
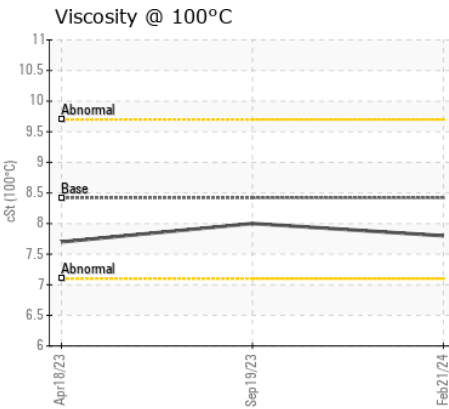
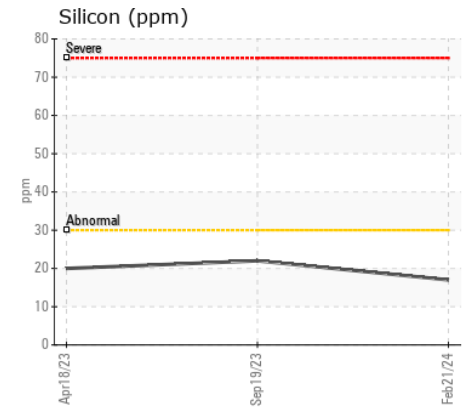
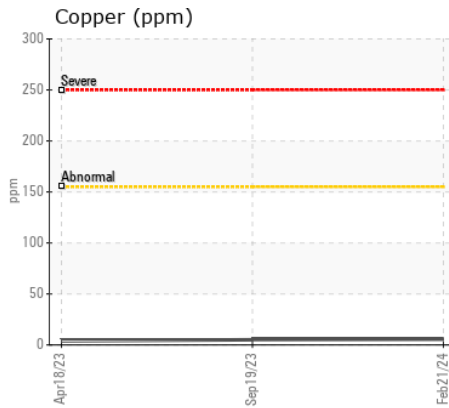
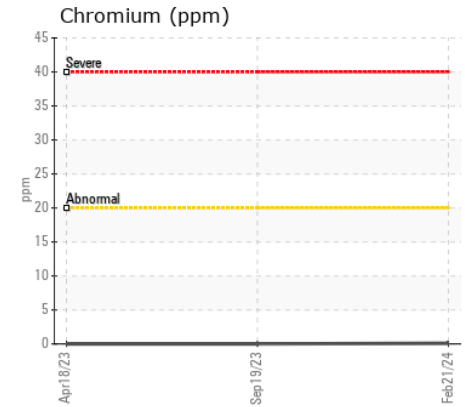
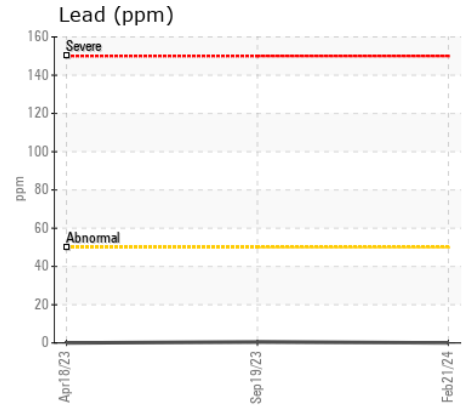
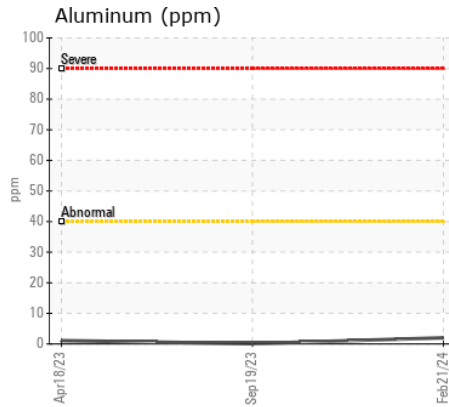
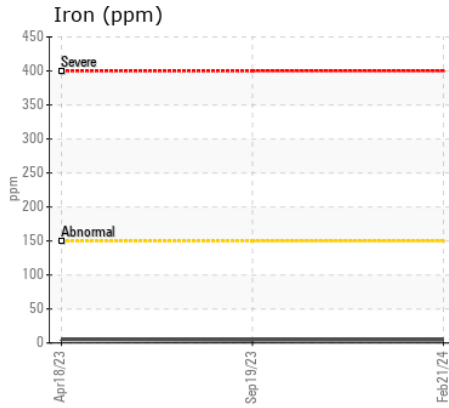
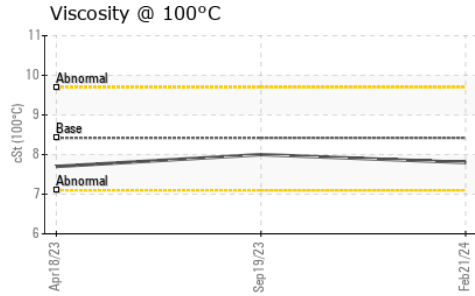
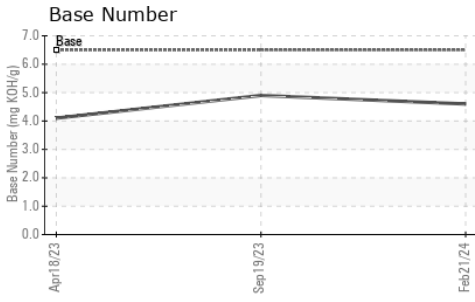
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >30 | 17 | 22 | 20 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 2 | <1 |
| Fuel | | WC Method | >4.0 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | | 0 | 0 | 0 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 9.1 | 9.0 | 8.3 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 19.0 | 19.5 | 17.4 |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | NEG |

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.

| | | | | | | |
|------------------|----------|-------------|------|--------------|------|------|
| Sodium | ppm | ASTM D5185m | >400 | 3 | 5 | 4 |
| Boron | ppm | ASTM D5185m | 183 | 94 | 85 | 104 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 36 | 60 | 58 | 66 |
| Manganese | ppm | ASTM D5185m | 0 | <1 | 1 | 1 |
| Magnesium | ppm | ASTM D5185m | 417 | 496 | 487 | 560 |
| Calcium | ppm | ASTM D5185m | 1318 | 1070 | 1226 | 1176 |
| Phosphorus | ppm | ASTM D5185m | 773 | 698 | 671 | 682 |
| Zinc | ppm | ASTM D5185m | 845 | 789 | 832 | 814 |
| Sulfur | ppm | ASTM D5185m | 2690 | 2644 | 2885 | 3074 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 13.0 | 14.1 | 12.1 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 6.5 | 4.6 | 4.9 | 4.1 |
| Visc @ 100°C | cSt | ASTM D445 | 8.42 | 7.8 | 8 | 7.7 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0117695 **Received** : 29 Feb 2024
Lab Number : 06105028 **Tested** : 01 Mar 2024
Unique Number : 10903258 **Diagnosed** : 01 Mar 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

VILLAGE OF NORTH RIVERSIDE
 2345 S DESPLAINES
 NORTH RIVERSIDE, IL
 US 60546
 Contact: Service Manager
 vnzrdpw@gmail.com

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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