



VOLVO PENTA

OIL ANALYSIS REPORT

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

Area
ROBERT DIMURRO [MATTHEW DOW]

Machine Id
VOLVO PENTA 3940025911

Component
Port IPS

Fluid
GEAR OIL SAE 75W90 (15 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | VPA055507 | VPA047879 | VPA047341 |
| Sample Date | | Client Info | | 02 May 2024 | 20 Mar 2023 | 30 Mar 2022 |
| Machine Age | hrs | Client Info | | 194 | 173 | 141 |
| Oil Age | hrs | Client Info | | 21 | 32 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| 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.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| PQ | | ASTM D8184 | | 15 | 12 | 16 |
| Iron | ppm | ASTM D5185m | >200 | 14 | 18 | 26 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | | 2 | 0 | <1 |
| Lead | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Copper | ppm | ASTM D5185m | | 2 | 2 | 6 |
| Tin | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

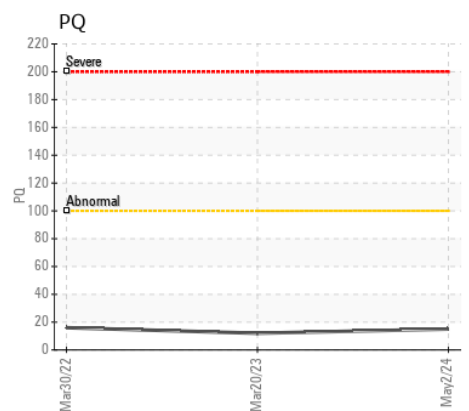
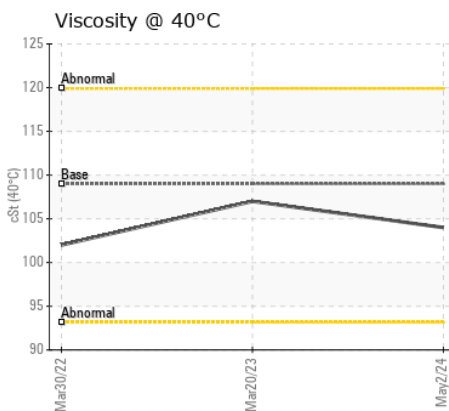
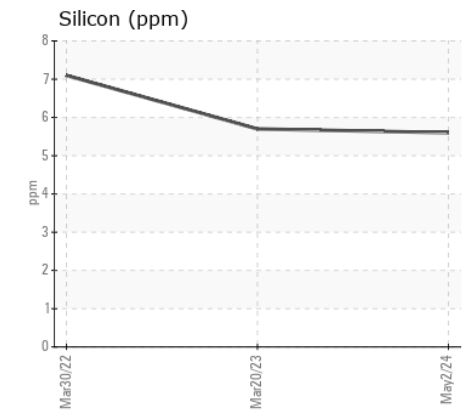
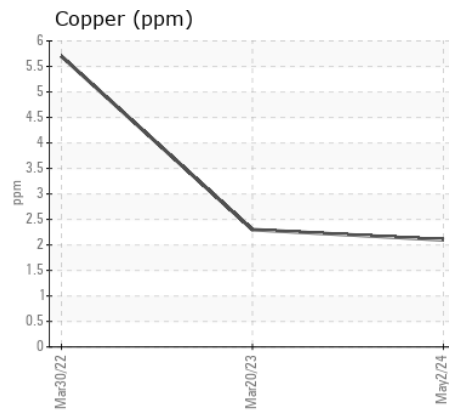
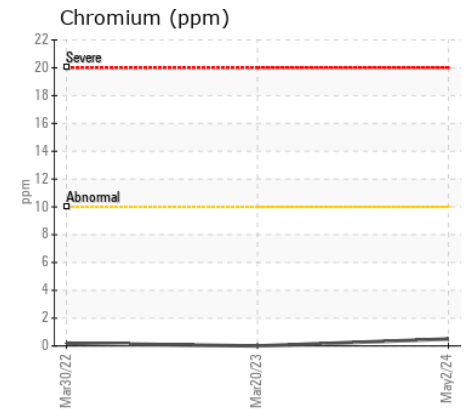
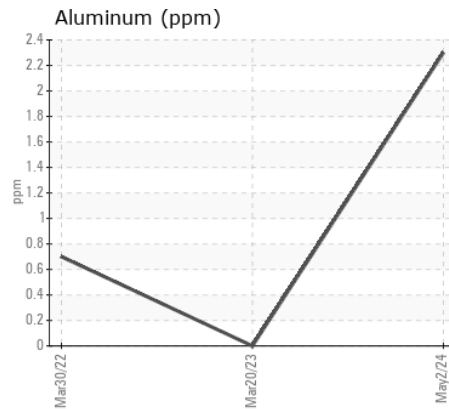
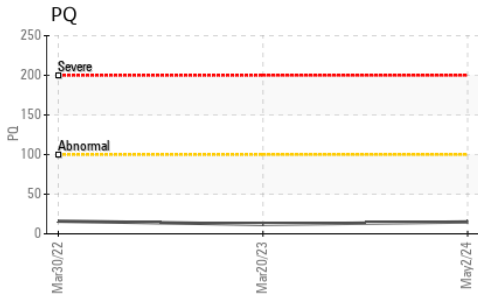
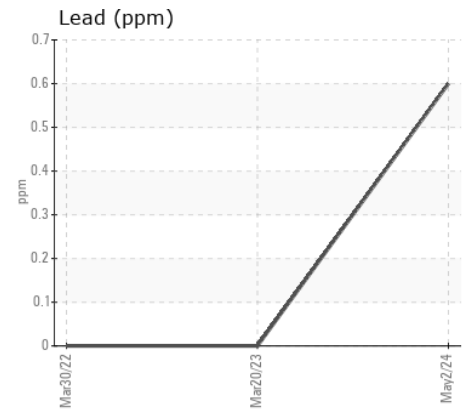
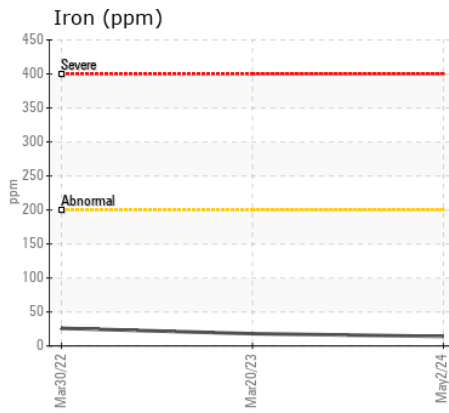
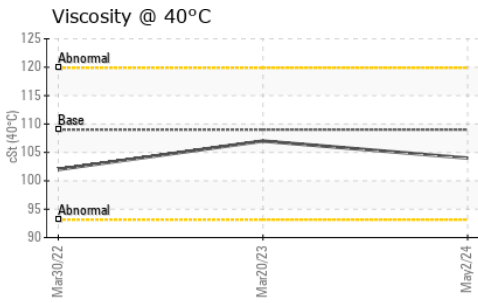
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | | 6 | 6 | 7 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 2 | 2 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| 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 condition of the oil is acceptable for the time in service.

| | | | | | | |
|-------------|-----|-------------|-------|--------------|-------|-------|
| Sodium | ppm | ASTM D5185m | | 0 | 0 | 1 |
| Boron | ppm | ASTM D5185m | 400 | 396 | 354 | 442 |
| Barium | ppm | ASTM D5185m | 200 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 12 | <1 | <1 | 3 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | 1 |
| Magnesium | ppm | ASTM D5185m | 12 | 12 | 30 | 307 |
| Calcium | ppm | ASTM D5185m | 150 | 5 | 17 | 65 |
| Phosphorus | ppm | ASTM D5185m | 1650 | 1352 | 1273 | 1433 |
| Zinc | ppm | ASTM D5185m | 125 | 7 | 13 | 62 |
| Sulfur | ppm | ASTM D5185m | 22500 | 27653 | 23920 | 18985 |
| Visc @ 40°C | cSt | ASTM D445 | 109 | 104 | 107 | 102 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VPA055507 **Received** : 23 May 2024
Lab Number : 06189552 **Tested** : 24 May 2024
Unique Number : 11046304 **Diagnosed** : 28 May 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: PQ)

Mobile Marine Services Inc
 01032 Advance Rd South
 EAST JORDAN, MI
 US 49727
 Contact: Duane Kujat
 mobilemarine@twin-valley.net
 T: Phone
 F:

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)