



VOLVO PENTA

OIL ANALYSIS REPORT

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

Area
WAJER 55
Machine Id
VOLVO PENTA 3200001639
Component
Center IPS
Fluid
VOLVO PENTA GL-5 SAE 75W90 (4 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | VPA041569 | VPA049912 | VPA046450 |
| Sample Date | | Client Info | | 02 Apr 2024 | 17 Oct 2023 | 21 Dec 2022 |
| Machine Age | hrs | Client Info | | 0 | 520 | 437 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changd | N/A | N/A |
| Filter Changed | | Client Info | | Not Changd | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| PQ | | ASTM D8184 | | 26 | 16 | 11 |
| Iron | ppm | ASTM D5185m | >200 | 104 | 76 | 37 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >10 | 2 | 2 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | | 3 | 2 | <1 |
| Lead | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185m | | 32 | 26 | 9 |
| Tin | ppm | ASTM D5185m | | 0 | 0 | 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

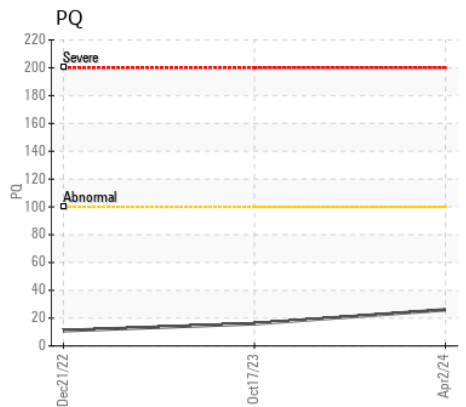
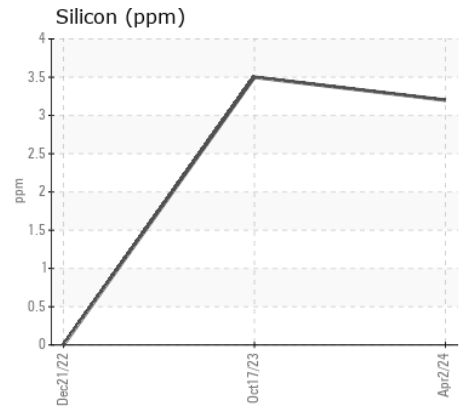
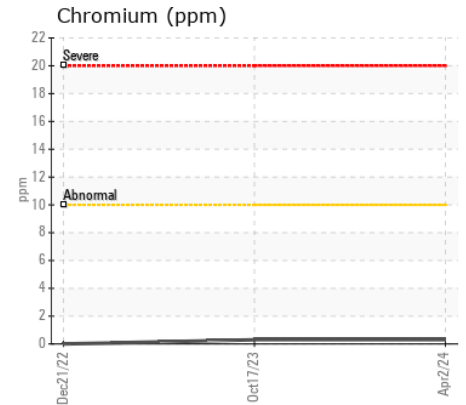
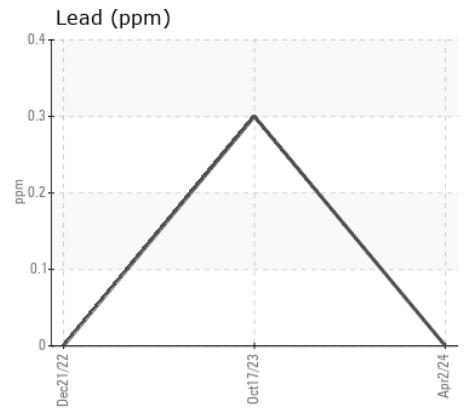
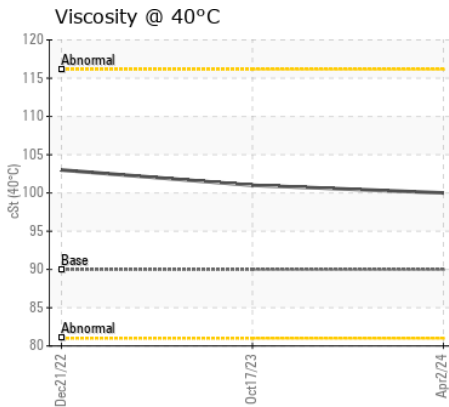
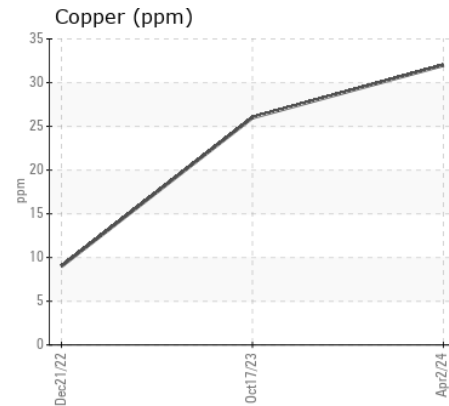
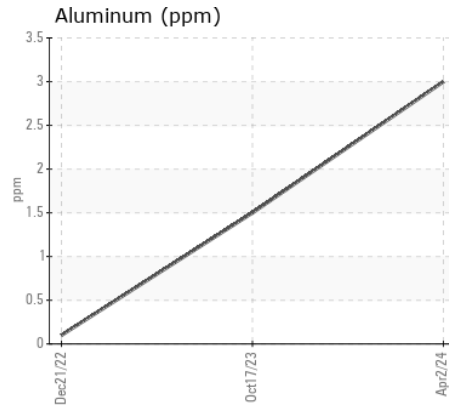
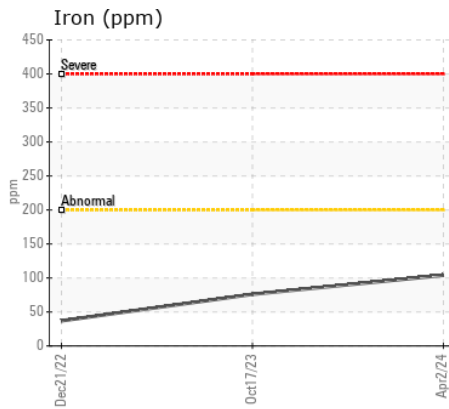
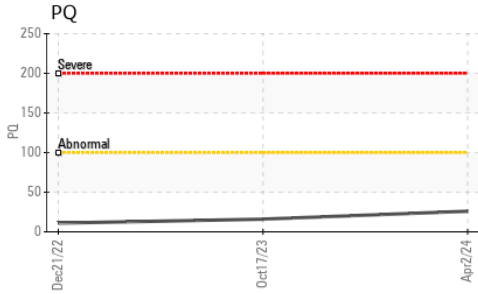
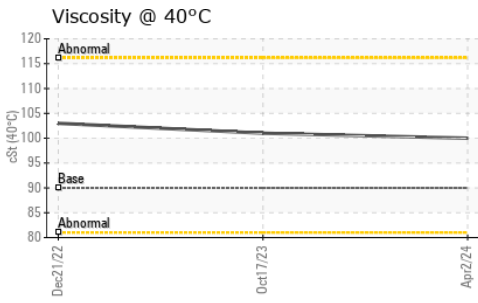
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | | 3 | 4 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 4 | 6 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | LIGHT | 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 suitable for further service.

| | | | | | | |
|-------------|-----|-------------|------|--------------|-------|-------|
| Sodium | ppm | ASTM D5185m | | 8 | 3 | 3 |
| Boron | ppm | ASTM D5185m | | 209 | 217 | 327 |
| Barium | ppm | ASTM D5185m | | <1 | 10 | 0 |
| Molybdenum | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Manganese | ppm | ASTM D5185m | | 5 | 3 | 2 |
| Magnesium | ppm | ASTM D5185m | | 52 | 37 | 70 |
| Calcium | ppm | ASTM D5185m | | 41 | 17 | 23 |
| Phosphorus | ppm | ASTM D5185m | | 1417 | 1366 | 1362 |
| Zinc | ppm | ASTM D5185m | | 153 | 50 | 17 |
| Sulfur | ppm | ASTM D5185m | | 27106 | 28645 | 27271 |
| Visc @ 40°C | cSt | ASTM D445 | 90.0 | 100 | 101 | 103 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VPA041569 **Received** : 10 Apr 2024
Lab Number : 06145441 **Tested** : 16 Apr 2024
Unique Number : 10970249 **Diagnosed** : 16 Apr 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: PQ)

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 3600 HACIENDA BLVD UNIT G
 DAVIE, FL
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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)