

OIL ANALYSIS REPORT



BRIAN FINN PB55 19 VOLVO PENTA 3950002843 - PORT IPS

Sample No: VPA051828

Oil Type: VOLVO API GL-5 SAE 75W90

SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VPA051828 | VPA041396 | VPA041384 | --- |
| Sample Date | 24 Sep 2023 | 22 Mar 2023 | 20 Jan 2023 | --- |
| Machine Hours | 1342 | 1200 | 1148 | --- |
| Oil Hours | 150 | 50 | 10 | --- |
| Oil Changed | Changed | Not Changd | Changed | --- |
| Sample Status | ATTENTION | NORMAL | NORMAL | --- |

GRAND BANKS

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OIL CONDITION

| | | | | | |
|-------------|-----|------------|-----|-------|-----|
| Visc @ 40°C | cSt | 103 | 106 | █ 106 | --- |
|-------------|-----|------------|-----|-------|-----|

CONTAMINATION

| | | | | | |
|-----------|-----|----------------|-----|------|-----|
| Silicon | ppm | 3 | 2 | 2 | --- |
| Sodium | ppm | █ 21 | █ 6 | █ 6 | --- |
| Potassium | ppm | █ <1 | █ 2 | █ <1 | --- |

WEAR METALS

| | | | | | |
|------------|-----|--------------|-------|------|-----|
| PQ | | █ 15 | █ 14 | █ 12 | --- |
| Iron | ppm | ▲ 277 | █ 114 | █ 75 | --- |
| Copper | ppm | █ 21 | 8 | 5 | --- |
| Lead | ppm | 0 | 0 | <1 | --- |
| Tin | ppm | <1 | 0 | <1 | --- |
| Aluminum | ppm | 7 | 2 | 2 | --- |
| Chromium | ppm | █ 2 | █ <1 | █ <1 | --- |
| Molybdenum | ppm | █ 2 | █ <1 | █ <1 | --- |
| Nickel | ppm | █ 1 | █ <1 | █ <1 | --- |
| Titanium | ppm | 0 | 0 | 0 | --- |
| Silver | ppm | 0 | 0 | <1 | --- |
| Manganese | ppm | █ 4 | █ 2 | █ 1 | --- |
| Vanadium | ppm | 0 | 0 | 0 | --- |

ADDITIVES

| | | | | | |
|------------|-----|---------------|--------|--------|-----|
| Calcium | ppm | █ 30 | █ 9 | █ 9 | --- |
| Magnesium | ppm | █ 6 | █ 6 | █ 4 | --- |
| Zinc | ppm | █ 18 | █ 13 | █ 13 | --- |
| Phosphorus | ppm | █ 1351 | █ 1348 | █ 1210 | --- |
| Barium | ppm | █ 0 | █ 0 | █ 3 | --- |
| Boron | ppm | █ 295 | █ 332 | █ 266 | --- |

Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VP531377
Unique No: 10661288
Signed: Don Baldrige
Report Date: 26 Sep 2023

OIL ANALYSIS REPORT

**VOLVO
PENTA**

GRAPHS

