

OIL ANALYSIS REPORT

VOLVO PENTA

3940018690 - STARBOARD IPS

Sample No: VPA058936

Oil Type: VOLVO API GL-5 SAE 75W90

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VPA058936 | VPA036611 | --- | --- |
| Sample Date | 20 Mar 2024 | 10 Nov 2023 | --- | --- |
| Machine Hours | 1138 | 1036 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | N/A | N/A | --- | --- |
| Sample Status | ABNORMAL | ABNORMAL | --- | --- |

ADVANCED DIESEL

1029 INDUSTRIAL BLVD, UNIT 2
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OIL CONDITION

| | | | | | |
|-------------|-----|-------|-------|-----|-----|
| Visc @ 40°C | cSt | █ 107 | █ 108 | --- | --- |
|-------------|-----|-------|-------|-----|-----|

CONTAMINATION

| | | | | | |
|-----------|-----|---------|------|-----|-----|
| Water | % | ▲ 0.298 | NEG | --- | --- |
| Silicon | ppm | █ 12 | 15 | --- | --- |
| Sodium | ppm | █ 15 | █ 14 | --- | --- |
| Potassium | ppm | █ 1 | █ 3 | --- | --- |

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. There is a light concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

WEAR METALS

| | | | | | |
|------------|-----|-------|-------|-----|-----|
| PQ | | █ 18 | █ 21 | --- | --- |
| Iron | ppm | ▲ 254 | ▲ 213 | --- | --- |
| Copper | ppm | █ 20 | █ 16 | --- | --- |
| Lead | ppm | <1 | 0 | --- | --- |
| Tin | ppm | <1 | <1 | --- | --- |
| Aluminum | ppm | 4 | 4 | --- | --- |
| Chromium | ppm | █ 2 | █ 1 | --- | --- |
| Molybdenum | ppm | █ 0 | █ <1 | --- | --- |
| Nickel | ppm | █ 2 | █ 2 | --- | --- |
| Titanium | ppm | 0 | 0 | --- | --- |
| Silver | ppm | 0 | 0 | --- | --- |
| Manganese | ppm | █ 3 | █ 2 | --- | --- |
| Vanadium | ppm | 0 | <1 | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|--------|-----|-----|
| Calcium | ppm | █ 63 | █ 72 | --- | --- |
| Magnesium | ppm | █ 6 | █ 3 | --- | --- |
| Zinc | ppm | █ 31 | █ 40 | --- | --- |
| Phosphorus | ppm | █ 1382 | █ 1360 | --- | --- |
| Barium | ppm | █ 0 | █ 0 | --- | --- |
| Boron | ppm | █ 251 | █ 260 | --- | --- |

Depot: VPADVNP
Unique No: 10943797
Signed: Jonathan Hester
Report Date: 29 Mar 2024

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GRAPHS

