

OIL ANALYSIS REPORT

**VOLVO
PENTA**

STARBOARD ENGINE - STARBOARD DIESEL ENGINE

Sample No: VPA049807

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA049807 | --- | --- | --- |
| Sample Date | 18 Oct 2023 | --- | --- | --- |
| Machine Hours | 0 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | N/A | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

Sea Power Ltd

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OIL CONDITION

| | | | | | |
|----------------|-----|--------|-----|-----|-----|
| Visc @ 100°C | cSt | █ 13.3 | --- | --- | --- |
| Oxidation (PA) | % | 60 | --- | --- | --- |

CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Soot % | % | █ 0.3 | --- | --- | --- |
| Nitration (PA) | % | 62 | --- | --- | --- |
| Sulfation (PA) | % | 56 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | <1.0 | --- | --- | --- |
| Silicon | ppm | █ 8 | --- | --- | --- |
| Sodium | ppm | █ 3 | --- | --- | --- |
| Potassium | ppm | █ 1 | --- | --- | --- |

WEAR METALS

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Iron | ppm | █ 30 | --- | --- | --- |
| Copper | ppm | █ 11 | --- | --- | --- |
| Lead | ppm | █ 2 | --- | --- | --- |
| Tin | ppm | █ 1 | --- | --- | --- |
| Aluminum | ppm | █ 2 | --- | --- | --- |
| Chromium | ppm | █ 1 | --- | --- | --- |
| Molybdenum | ppm | █ 62 | --- | --- | --- |
| Nickel | ppm | █ 3 | --- | --- | --- |
| Titanium | ppm | █ 0 | --- | --- | --- |
| Silver | ppm | █ <1 | --- | --- | --- |
| Manganese | ppm | █ 0 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | █ 1067 | --- | --- | --- |
| Magnesium | ppm | █ 986 | --- | --- | --- |
| Zinc | ppm | █ 1211 | --- | --- | --- |
| Phosphorus | ppm | █ 1034 | --- | --- | --- |
| Barium | ppm | █ <1 | --- | --- | --- |
| Boron | ppm | █ 2 | --- | --- | --- |

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm. Please specify the component make and model with your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VP154139
Unique No: 5659245
Signed: Kevin Marson
Report Date: 19 Oct 2023

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GRAPHS

