

OIL ANALYSIS REPORT

VOLVO PENTA

SMITTO PF VOLVO PENTA 1012583660 - STARBOARD DIESEL ENGINE

Sample No: VPA041858

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number	VPA041858	---	---	---
Sample Date	18 Mar 2024	---	---	---
Machine Hours	1160	---	---	---
Oil Hours	2	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

MAKO MARINE

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.9	---	---	---
Base Number (BN)	mg KOH/g	█ 9.4	---	---	---
Oxidation (PA)	%	60	---	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0	---	---	---
Nitration (PA)	%	46	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 2	---	---	---

WEAR METALS

Iron	ppm	█ 3	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 44	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1475	---	---	---
Magnesium	ppm	█ 474	---	---	---
Zinc	ppm	█ 1163	---	---	---
Phosphorus	ppm	█ 923	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 70	---	---	---

Depot: VP1134331

Unique No: 10940388

Signed: Angela Borella

Report Date: 26 Mar 2024

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GRAPHS

