

OIL ANALYSIS REPORT

VOLVO PENTA

TANURY HS VOLVO PENTA 7011376044 - STARBOARD DIESEL ENGINE

Sample No: VPA044069

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA044069	VPA040840	---	---
Sample Date	16 Jul 2023	15 Nov 2021	---	---
Machine Hours	944	778	---	---
Oil Hours	0	178	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 12.6	█ 12.5	---	---
Base Number (BN)	mg KOH/g	█ 9.5	---	---	---
Oxidation (PA)	%	64	64	---	---

CONTAMINATION

Soot %	%	█ 0.5	█ 0.4	---	---
Nitration (PA)	%	67	63	---	---
Sulfation (PA)	%	58	59	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 5	█ 4	---	---
Sodium	ppm	█ 3	█ 6	---	---
Potassium	ppm	█ 2	█ <1	---	---

WEAR METALS

Iron	ppm	█ 9	█ 9	---	---
Copper	ppm	█ 44	█ 37	---	---
Lead	ppm	█ 1	█ <1	---	---
Tin	ppm	█ <1	█ 1	---	---
Aluminum	ppm	█ <1	█ <1	---	---
Chromium	ppm	█ 0	█ <1	---	---
Molybdenum	ppm	█ 61	█ 59	---	---
Nickel	ppm	█ 1	█ <1	---	---
Titanium	ppm	█ <1	█ 0	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	█ 1157	█ 1112	---	---
Magnesium	ppm	█ 1043	█ 996	---	---
Zinc	ppm	█ 1362	█ 1175	---	---
Phosphorus	ppm	█ 1060	█ 1107	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ <1	█ 2	---	---

Point Judith Marina

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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.

Depot: VP153811
Unique No: 10576301
Signed: Doug Bogart
Report Date: 30 Jul 2023

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GRAPHS

