

OIL ANALYSIS REPORT

VOLVO PENTA

NORM DETRICK 351876 VOLVO PENTA 7008553583 - STARBOARD DIESEL ENGINE

Sample No: VPA048450

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

SAMPLE INFORMATION

Sample Number	VPA048450	---	---	---
Sample Date	07 Jul 2023	---	---	---
Machine Hours	195	---	---	---
Oil Hours	82	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.6	---	---	---
Base Number (BN)	mg KOH/g	█ 10.1	---	---	---
Oxidation (PA)	%	60	---	---	---

CONTAMINATION

Soot %	%	█ 0.9	---	---	---
Nitration (PA)	%	55	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 15	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 2	---	---	---

WEAR METALS

Iron	ppm	█ 10	---	---	---
Copper	ppm	█ 42	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 6	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 86	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1406	---	---	---
Magnesium	ppm	1166	---	---	---
Zinc	ppm	█ 1454	---	---	---
Phosphorus	ppm	█ 1211	---	---	---
Barium	ppm	█ 13	---	---	---
Boron	ppm	█ 44	---	---	---

Skipper Marine of Ohio, LLC

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T:
F:

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: VP494046
Unique No: 10551641
Signed: Don Baldrige
Report Date: 13 Jul 2023

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GRAPHS

