

OIL ANALYSIS REPORT

VOLVO PENTA

JOE JABINATI ALAN VOLVO PENTA 7011313766 - STARBOARD DIESEL ENGINE

Sample No: VPA041330

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

SAMPLE INFORMATION

Sample Number	VPA041330	---	---	---
Sample Date	18 Sep 2023	---	---	---
Machine Hours	488	---	---	---
Oil Hours	286	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

Precision Marine Center Llc
290 Drake Ave
NEW ROCHELLE, NY
US 10805
Contact: Marc Castellano
marc@precisionmarinecenter.com
T:
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	---	---	---
Base Number (BN)	mg KOH/g	█ 7.2	---	---	---
Oxidation (PA)	%	49	---	---	---

CONTAMINATION

Soot %	%	█ 0.8	---	---	---
Nitration (PA)	%	60	---	---	---
Sulfation (PA)	%	49	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 12	---	---	---
Sodium	ppm	█ 6	---	---	---
Potassium	ppm	█ 3	---	---	---

WEAR METALS

Iron	ppm	█ 53	---	---	---
Copper	ppm	▲ 97	---	---	---
Lead	ppm	█ 4	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 6	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 43	---	---	---
Nickel	ppm	█ 4	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	< 1	---	---	---

ADDITIVES

Calcium	ppm	█ 1341	---	---	---
Magnesium	ppm	837	---	---	---
Zinc	ppm	█ 1349	---	---	---
Phosphorus	ppm	█ 1029	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 0	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other 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 acceptable for the time in service.

Depot: VP850387
Unique No: 10658566
Signed: Don Baldrige
Report Date: 22 Sep 2023

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GRAPHS

