

OIL ANALYSIS REPORT

VOLVO PENTA

LEHRMAN VOLVO PENTA A589606 - STARBOARD DIESEL ENGINE

Sample No: VPA036364

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

SAMPLE INFORMATION

Sample Number	VPA036364	---	---	---
Sample Date	28 Nov 2023	---	---	---
Machine Hours	806	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 14.1	---	---	---
Base Number (BN)	mg KOH/g	█ 8.3	---	---	---
Oxidation (PA)	%	63	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	48	---	---	---
Sulfation (PA)	%	55	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 3	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 3	---	---	---

WEAR METALS

Iron	ppm	█ 5	---	---	---
Copper	ppm	█ 3	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ < 1	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 7	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	< 1	---	---	---

ADDITIVES

Calcium	ppm	█ 2029	---	---	---
Magnesium	ppm	█ 135	---	---	---
Zinc	ppm	█ 1142	---	---	---
Phosphorus	ppm	█ 990	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	155	---	---	---

FULL KEEL MARINE SERVICES

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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 acceptable for the time in service.

Depot: VP1298996
Unique No: 10766438
Signed: Don Baldrige
Report Date: 04 Dec 2023

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GRAPHS

