

OIL ANALYSIS REPORT

VOLVO PENTA

534550 VOLVO PENTA A1188039 - STARBOARD DIESEL ENGINE

Sample No: VPA056109

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

SAMPLE INFORMATION

Sample Number	VPA056109	---	---	---
Sample Date	21 Mar 2024	---	---	---
Machine Hours	178	---	---	---
Oil Hours	178	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

Jas Marine Service Inc.

1009 Newman RD.

LAKE PARK, FL

US 33403

Contact: DEBBIE

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F:

OIL CONDITION

Visc @ 100°C	cSt	█ 14.0	---	---	---
Base Number (BN)	mg KOH/g	█ 8.0	---	---	---
Oxidation (PA)	%	57	---	---	---

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 %	%	█ 0.9	---	---	---
Nitration (PA)	%	77	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 16	---	---	---
Sodium	ppm	█ 6	---	---	---
Potassium	ppm	█ 4	---	---	---

WEAR METALS

Iron	ppm	█ 31	---	---	---
Copper	ppm	█ 19	---	---	---
Lead	ppm	█ 4	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 6	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 73	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	█ < 1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	< 1	---	---	---

ADDITIVES

Calcium	ppm	█ 2239	---	---	---
Magnesium	ppm	89	---	---	---
Zinc	ppm	█ 1222	---	---	---
Phosphorus	ppm	█ 868	---	---	---
Barium	ppm	█ < 1	---	---	---
Boron	ppm	█ 44	---	---	---

Depot: VP152963

Unique No: 10949724

Signed: Don Baldrige

Report Date: 29 Mar 2024

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GRAPHS

