

OIL ANALYSIS REPORT

VOLVO PENTA

MIKE OWEN 6230 VOLVO PENTA TAMD63P-A 2061095732 - STARBOARD DIESEL ENGINE

Sample No: VPA048858

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number	VPA048858	---	---	---
Sample Date	08 Aug 2023	---	---	---
Machine Hours	2889	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

Northwest Diesel Power

1325 ROEDER AVE SUITE 103

BELLINGHAM, WA

US 98225

Contact: BRANDON ROBERTSON

parts@nwdieselpower.com

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F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	---	---	---
Base Number (BN)	mg KOH/g	█ 9.3	---	---	---
Oxidation (PA)	%	55	---	---	---

CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	43	---	---	---
Sulfation (PA)	%	50	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 7	---	---	---
Sodium	ppm	█ <1	---	---	---
Potassium	ppm	█ 2	---	---	---

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.

WEAR METALS

Iron	ppm	█ 24	---	---	---
Copper	ppm	█ 6	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 60	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1190	---	---	---
Magnesium	ppm	█ 931	---	---	---
Zinc	ppm	█ 1318	---	---	---
Phosphorus	ppm	█ 1021	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 72	---	---	---

Depot: VP759009

Unique No: 10593023

Signed: Don Baldrige

Report Date: 11 Aug 2023

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GRAPHS

