

OIL ANALYSIS REPORT

VOLVO PENTA

DENNIS WOODS 7716868 VOLVO PENTA 2204157684 - STARBOARD DIESEL ENGINE

Sample No: VPA036288

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA036288	VPA046280	VPA034191	---
Sample Date	13 Sep 2023	07 Feb 2023	18 Mar 2022	---
Machine Hours	2150	2110	2046	---
Oil Hours	0	60	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

Pacific Power Group - VP981534

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OIL CONDITION

Visc @ 100°C	cSt	13.4	13.4	14.2	---
Base Number (BN)	mg KOH/g	9.5	10.0	10.1	---
Oxidation (PA)	%	69	74	77	---

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.

CONTAMINATION

Soot %	%	0.5	0.3	0.3	---
Nitration (PA)	%	73	75	76	---
Sulfation (PA)	%	56	60	67	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	16	17	7	---
Sodium	ppm	4	2	2	---
Potassium	ppm	2	1	<1	---

WEAR METALS

Iron	ppm	20	14	17	---
Copper	ppm	6	3	4	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	1	<1	<1	---
Aluminum	ppm	2	2	3	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	69	69	74	---
Nickel	ppm	1	<1	1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	2	<1	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1181	1140	1624	---
Magnesium	ppm	1043	933	801	---
Zinc	ppm	1335	1205	839	---
Phosphorus	ppm	1099	1006	784	---
Barium	ppm	0	1	0	---
Boron	ppm	11	40	242	---

Depot: VP99031103

Unique No: 10662241

Signed: Don Baldrige

Report Date: 27 Sep 2023

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GRAPHS

