

OIL ANALYSIS REPORT

VOLVO PENTA

MARC DOYLE 7716104 VOLVO PENTA A1092061 - CENTER DIESEL ENGINE

Sample No: VPA056744

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA056744	VPA048364	VPA028465	---
Sample Date	24 Jun 2023	04 May 2022	20 Apr 2021	---
Machine Hours	191	127	61	---
Oil Hours	0	66	61	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

Pacific Power Group - VP981534

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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.3	13.8	---
Base Number (BN)	mg KOH/g	9.9	11.0	---	---
Oxidation (PA)	%	60	59	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 acceptable for the time in service.

CONTAMINATION

Soot %	%	0.2	0.1	0.1	---
Nitration (PA)	%	43	48	53	---
Sulfation (PA)	%	53	56	54	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	6	9	---
Sodium	ppm	1	2	4	---
Potassium	ppm	1	<1	25	---

WEAR METALS

Iron	ppm	10	10	6	---
Copper	ppm	6	6	6	---
Lead	ppm	0	2	0	---
Tin	ppm	<1	<1	0	---
Aluminum	ppm	1	2	2	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	61	50	10	---
Nickel	ppm	<1	1	<1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	<1	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1115	1129	1386	---
Magnesium	ppm	1004	942	713	---
Zinc	ppm	1333	1180	836	---
Phosphorus	ppm	1095	1007	848	---
Barium	ppm	0	0	0	---
Boron	ppm	4	19	86	---

Depot: VP99031103

Unique No: 10545763

Signed: Don Baldrige

Report Date: 06 Jul 2023

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GRAPHS

