

OIL ANALYSIS REPORT

VOLVO PENTA

LARRY SPILLANE MATTHEW DOW VOLVO PENTA 7008515007 - STARBOARD DIESEL ENGINE

Sample No: VPA060799

Oil Type: VALVOLINE PREMIUM BLUE

SAMPLE INFORMATION

Sample Number	VPA060799	VPA043336	---	---
Sample Date	12 Oct 2023	03 Oct 2022	---	---
Machine Hours	138	85	---	---
Oil Hours	53	57	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	14.4	13.9	---	---
Base Number (BN)	mg KOH/g	9.2	11.1	---	---
Oxidation (PA)	%	70	69	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.4	0.4	---	---
Nitration (PA)	%	63	63	---	---
Sulfation (PA)	%	57	59	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	10	13	---	---
Sodium	ppm	2	3	---	---
Potassium	ppm	0	0	---	---

WEAR METALS

Iron	ppm	7	14	---	---
Copper	ppm	38	34	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	1	2	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	45	53	---	---
Nickel	ppm	<1	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	<1	<1	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	1129	1494	---	---
Magnesium	ppm	806	633	---	---
Zinc	ppm	907	1129	---	---
Phosphorus	ppm	696	965	---	---
Barium	ppm	0	0	---	---
Boron	ppm	41	95	---	---

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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: VP443016
Unique No: 10742648
Signed: Sean Felton
Report Date: 16 Nov 2023

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GRAPHS

