

OIL ANALYSIS REPORT

VOLVO PENTA

BERNARD PETERS 6049 VOLVO PENTA 7008471814 - PORT DIESEL ENGINE

Sample No: VPA055297

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

SAMPLE INFORMATION

Sample Number	VPA055297	VPA044446	VPA034129	VPA023995
Sample Date	10 Aug 2023	17 Mar 2023	24 Feb 2022	19 Feb 2021
Machine Hours	475	403	293	207
Oil Hours	70	150	100	0
Oil Changed	Not Chngd	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.5	█ 13.6	█ 13.6	█ 13.4
Base Number (BN)	mg KOH/g	█ 10.3	█ 10.5	█ 11.2	---
Oxidation (PA)	%	54	57	61	59

CONTAMINATION

Soot %	%	█ 0.3	█ 0.5	█ 0.4	█ 0.5
Nitration (PA)	%	44	53	53	51
Sulfation (PA)	%	51	56	58	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	█ 8	█ 12	█ 11	█ 12
Sodium	ppm	█ 0	█ 1	█ 1	█ <1
Potassium	ppm	█ <1	█ <1	█ 0	█ <1

WEAR METALS

Iron	ppm	█ 8	█ 10	█ 9	█ 13
Copper	ppm	█ 19	█ 33	█ 26	█ 27
Lead	ppm	█ <1	█ 0	█ 1	█ 0
Tin	ppm	█ 0	█ 0	█ 0	█ <1
Aluminum	ppm	█ <1	█ <1	█ <1	█ 1
Chromium	ppm	█ <1	█ <1	█ <1	█ <1
Molybdenum	ppm	█ 66	█ 59	█ 60	█ 54
Nickel	ppm	█ <1	█ <1	█ <1	█ 1
Titanium	ppm	█ 0	█ 0	█ 0	█ 0
Silver	ppm	█ 1	█ <1	█ <1	█ <1
Manganese	ppm	█ <1	█ <1	█ <1	█ <1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	█ 1195	█ 1104	█ 1069	█ 1209
Magnesium	ppm	█ 979	█ 942	█ 1016	916
Zinc	ppm	█ 1260	█ 1306	█ 1245	█ 1240
Phosphorus	ppm	█ 1083	█ 974	█ 1081	█ 1093
Barium	ppm	█ 2	█ 0	█ 0	█ 0
Boron	ppm	█ 0	█ 0	█ 2	█ 6

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: VP297371
Unique No: 10603042
Signed: Don Baldrige
Report Date: 15 Aug 2023

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GRAPHS

