

OIL ANALYSIS REPORT



MAYEDA ENTERPRISE 7719825 VOLVO PENTA A244401 - PORT DIESEL ENGINE

Sample No: VPA054291
Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

SAMPLE INFORMATION

Sample Number	VPA054291	VPA056640	VPA041552	VPA028493
Sample Date	03 Jun 2024	06 Jun 2023	12 Jul 2022	06 May 2021
Machine Hours	1287	1080	0	1003
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	N/A	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.7	13.5	13.7	13.9
Base Number (BN)	mg KOH/g	9.8	9.5	11.1	---
Oxidation (PA)	%	68	66	74	64

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.2	0.3	0.1
Nitration (PA)	%	73	53	79	56
Sulfation (PA)	%	58	56	62	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	5	4
Sodium	ppm	3	1	2	3
Potassium	ppm	3	3	1	<1

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	20	19	22	14
Copper	ppm	5	1	5	2
Lead	ppm	2	1	2	2
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	6	▲ 32	11	7
Chromium	ppm	<1	2	1	1
Molybdenum	ppm	61	61	60	59
Nickel	ppm	2	1	1	1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	0	<1	0	<1

ADDITIVES

Calcium	ppm	1136	1078	1047	1061
Magnesium	ppm	1035	976	943	992
Zinc	ppm	1293	1348	1256	1260
Phosphorus	ppm	1049	1100	1026	1069
Barium	ppm	0	0	0	0
Boron	ppm	0	<1	3	4

Depot: VP99031103
Unique No: 11076888
Signed: Don Baldrige
Report Date: 17 Jun 2024

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VOLVO PENTA

GRAPHS

