

OIL ANALYSIS REPORT



DENISON 15282 VOLVO PENTA 7008491295 - PORT DIESEL ENGINE

Sample No: VPA054913
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA054913	VPA055560	VPA038621	VPA037616
Sample Date	16 May 2024	15 Sep 2023	14 Sep 2021	16 Apr 2021
Machine Hours	1401	1400	0	481
Oil Hours	10	0	0	0
Oil Changed	Not Chngd	Changed	N/A	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

W J Clark Inc
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 F:

OIL CONDITION

Visc @ 100°C	cSt	13.6	13.3	13.3	13.1
Base Number (BN)	mg KOH/g	10.0	9.6	---	---
Oxidation (PA)	%	53	56	59	66

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.3	0.2	0.3
Nitration (PA)	%	38	52	51	60
Sulfation (PA)	%	49	53	55	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	11	9	12
Sodium	ppm	2	1	0	2
Potassium	ppm	2	<1	<1	<1

WEAR METALS

Iron	ppm	2	8	7	16
Copper	ppm	6	40	36	59
Lead	ppm	0	0	<1	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	2	<1	0
Chromium	ppm	0	1	<1	<1
Molybdenum	ppm	58	67	62	60
Nickel	ppm	<1	1	<1	1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	988	1138	1128	1014
Magnesium	ppm	944	1016	1019	913
Zinc	ppm	1255	1325	1324	1121
Phosphorus	ppm	1073	1100	1096	990
Barium	ppm	0	0	0	0
Boron	ppm	1	<1	6	0

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 suitable for further service.

Depot: VP151520
Unique No: 11037090
Signed: Jonathan Hester
Report Date: 23 May 2024

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**VOLVO
PENTA**

GRAPHS

