

OIL ANALYSIS REPORT



ERIK KRUEGER VOLVO PENTA 7009112634 - PORT DIESEL ENGINE

Sample No: VPA052181
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA052181	VPA041054	VPA048938	VPA022647
Sample Date	02 Apr 2024	07 Mar 2023	13 Apr 2022	14 Oct 2019
Machine Hours	806	757	693	564
Oil Hours	49	64	100	0
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	13.1	12.9	13.2
Base Number (BN)	mg KOH/g	9.8	10.1	10.5	---
Oxidation (PA)	%	56	56	58	51

CONTAMINATION

Water	%	NEG	NEG	NEG	0.112
Soot %	%	0.3	0.3	0.6	0.3
Nitration (PA)	%	47	49	58	53
Sulfation (PA)	%	52	54	57	45
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	6	6
Sodium	ppm	1	2	2	5
Potassium	ppm	0	<1	0	12

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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	6	13	28	11
Copper	ppm	3	6	20	7
Lead	ppm	0	0	1	2
Tin	ppm	<1	<1	2	0
Aluminum	ppm	<1	1	2	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	59	58	57	41
Nickel	ppm	0	1	2	1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1092	1098	1188	1159
Magnesium	ppm	975	907	944	831
Zinc	ppm	1234	1227	1173	1111
Phosphorus	ppm	1054	999	1081	913
Barium	ppm	0	0	0	0
Boron	ppm	2	6	6	3

Depot: VP297371
Unique No: 10965784
Signed: Sean Felton
Report Date: 10 Apr 2024

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**VOLVO
PENTA**

GRAPHS

