

OIL ANALYSIS REPORT

VOLVO PENTA

BRIAN CELLA 1610114 VOLVO PENTA A1089815 - PORT DIESEL ENGINE

Sample No: VPA054093

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA054093	VPA031096	VPA037820	VPA034573
Sample Date	09 May 2024	29 Aug 2022	07 Aug 2021	31 Aug 2020
Machine Hours	341	253	205	134
Oil Hours	0	0	71	134
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Pacific Power Group - VP981534

7215 S 228th St

Kent, WA

US 98032

Contact: PAT RYAN

pryan@pacificpowergroup.com

T: (253)520-5163

F:

OIL CONDITION

Visc @ 100°C	cSt	13.3	13.2	13.3	13.0
Base Number (BN)	mg KOH/g	10.0	11.2	---	---
Oxidation (PA)	%	55	59	57	49

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.3	0.3	0.3
Nitration (PA)	%	43	51	48	56
Sulfation (PA)	%	52	57	55	49
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	8	21
Sodium	ppm	<1	3	8	40
Potassium	ppm	0	4	<1	3

WEAR METALS

Iron	ppm	20	16	14	23
Copper	ppm	6	6	8	22
Lead	ppm	2	2	2	5
Tin	ppm	<1	<1	<1	3
Aluminum	ppm	3	3	0	10
Chromium	ppm	<1	1	1	2
Molybdenum	ppm	65	61	56	10
Nickel	ppm	<1	3	2	2
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	<1	<1	<1
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	<1	0	<1

ADDITIVES

Calcium	ppm	1211	1072	1291	2203
Magnesium	ppm	1058	899	856	106
Zinc	ppm	1415	1271	1171	1120
Phosphorus	ppm	1164	1043	1047	859
Barium	ppm	0	0	0	<1
Boron	ppm	0	20	5	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.

Depot: VP99031103

Unique No: 11030910

Signed: Sean Felton

Report Date: 17 May 2024

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PENTA**

GRAPHS

