

OIL ANALYSIS REPORT

VOLVO PENTA

JOHN GREGORY PB5530 VOLVO PENTA 2013905135 - PORT DIESEL ENGINE

Sample No: VPA056150

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA056150	VPA044276	VPA040694	---
Sample Date	04 Jan 2024	22 Nov 2022	09 Dec 2021	---
Machine Hours	978	750	505	---
Oil Hours	200	200	200	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

GRAND BANKS

450 SW SALEM RD

STUART, FL

US 34994

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F:

OIL CONDITION

Visc @ 100°C	cSt	13.0	12.8	12.7	---
Base Number (BN)	mg KOH/g	8.6	10.4	9.5	---
Oxidation (PA)	%	59	66	62	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.4	0.4	0.3	---
Nitration (PA)	%	60	65	59	---
Sulfation (PA)	%	53	60	57	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	4	7	10	---
Sodium	ppm	1	1	2	---
Potassium	ppm	<1	1	3	---

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	8	9	12	---
Copper	ppm	1	2	3	---
Lead	ppm	<1	1	<1	---
Tin	ppm	<1	1	1	---
Aluminum	ppm	1	1	2	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	56	59	62	---
Nickel	ppm	0	<1	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	<1	<1	0	---

ADDITIVES

Calcium	ppm	1133	1087	1189	---
Magnesium	ppm	917	942	993	---
Zinc	ppm	1266	1253	1348	---
Phosphorus	ppm	1030	1000	1121	---
Barium	ppm	0	0	0	---
Boron	ppm	4	3	6	---

Depot: VP531377

Unique No: 10822419

Signed: Don Baldrige

Report Date: 11 Jan 2024

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GRAPHS

