

OIL ANALYSIS REPORT

VOLVO PENTA

JMADRA VOLVO PENTA A364866 - CENTER DIESEL ENGINE

Sample No: VPA036927

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA036927	VPA031169	---	---
Sample Date	15 Nov 2023	24 Sep 2021	---	---
Machine Hours	1426	0	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

FULL KEEL MARINE SERVICES

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OIL CONDITION

Visc @ 100°C	cSt	13.4	13.6	---	---
Base Number (BN)	mg KOH/g	10.3	---	---	---
Oxidation (PA)	%	56	57	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.3	---	---
Nitration (PA)	%	44	51	---	---
Sulfation (PA)	%	52	54	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	6	4	---	---
Sodium	ppm	0	1	---	---
Potassium	ppm	2	<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	7	9	---	---
Copper	ppm	4	7	---	---
Lead	ppm	14	17	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	2	3	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	63	56	---	---
Nickel	ppm	<1	1	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	1055	982	---	---
Magnesium	ppm	911	907	---	---
Zinc	ppm	1225	1098	---	---
Phosphorus	ppm	1080	981	---	---
Barium	ppm	9	0	---	---
Boron	ppm	0	3	---	---

Depot: VP1298996
Unique No: 10752366
Signed: Don Baldrige
Report Date: 22 Nov 2023

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GRAPHS

