

OIL ANALYSIS REPORT



JIM HODDINOTT TAP560960 VOLVO PENTA 20132114227 - STARBOARD DIESEL ENGINE

Sample No: VPA053282
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA053282	VPA045620	---	---
Sample Date	05 Jun 2024	25 Jan 2024	---	---
Machine Hours	321	194	---	---
Oil Hours	200	94	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ATTENTION	---	---

FDDA TAMPA

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 US
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OIL CONDITION

Visc @ 100°C	cSt	12.9	12.9	---	---
Base Number (BN)	mg KOH/g	9.2	7.5	---	---
Oxidation (PA)	%	56	37	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.3	0.5	---	---
Nitration (PA)	%	51	50	---	---
Sulfation (PA)	%	52	46	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	14	33	---	---
Sodium	ppm	3	0	---	---
Potassium	ppm	12	25	---	---

Diagnosis

No corrective action is recommended at this time. 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	16	26	---	---
Copper	ppm	4	54	---	---
Lead	ppm	<1	2	---	---
Tin	ppm	1	2	---	---
Aluminum	ppm	7	11	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	69	6	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	2	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	1173	1109	---	---
Magnesium	ppm	1077	992	---	---
Zinc	ppm	1427	1242	---	---
Phosphorus	ppm	1196	953	---	---
Barium	ppm	0	5	---	---
Boron	ppm	<1	<1	---	---

Depot: VP208641
Unique No: 11074698
Signed: Sean Felton
Report Date: 14 Jun 2024

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VOLVO PENTA

GRAPHS

