

OIL ANALYSIS REPORT

VOLVO PENTA

JOE KAISER 505512 VOLVO PENTA 2013391996 - STARBOARD DIESEL ENGINE

Sample No: VPA048808

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA048808	VPA031661	VPA023830	---
Sample Date	14 Dec 2023	22 Jan 2021	27 Sep 2019	---
Machine Hours	1082	797	783	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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24400 Jefferson Ave.
SAINT CLAIR SHORES, MI
US 48080
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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.8	13.9	---
Base Number (BN)	mg KOH/g	9.5	---	---	---
Oxidation (PA)	%	57	58	54	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.4	0.6	0.3	---
Nitration (PA)	%	45	50	44	---
Sulfation (PA)	%	54	55	51	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	2	4	2	---
Sodium	ppm	0	2	2	---
Potassium	ppm	<1	0	3	---

WEAR METALS

Iron	ppm	<1	6	3	---
Copper	ppm	<1	2	1	---
Lead	ppm	0	0	0	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	<1	2	1	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	56	56	56	---
Nickel	ppm	0	<1	<1	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1102	1562	1380	---
Magnesium	ppm	902	690	607	---
Zinc	ppm	1223	1189	1057	---
Phosphorus	ppm	959	1046	826	---
Barium	ppm	0	0	0	---
Boron	ppm	8	34	44	---

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.

Depot: VP297371
Unique No: 10792807
Signed: Don Baldrige
Report Date: 20 Dec 2023

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GRAPHS

