

OIL ANALYSIS REPORT

VOLVO PENTA

GREG MOERSCHEL VOLVO PENTA 20132026388 - STARBOARD DIESEL ENGINE

Sample No: VPA050590

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA050590	VPA044150	VPA029959	---
Sample Date	20 Dec 2023	28 Nov 2022	31 Jan 2022	---
Machine Hours	290	217	134	---
Oil Hours	73	95	134	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.4	13.3	---
Base Number (BN)	mg KOH/g	9.6	10.7	8.6	---
Oxidation (PA)	%	59	62	39	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.2	0.2	0.3	---
Nitration (PA)	%	54	59	51	---
Sulfation (PA)	%	54	57	46	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	8	21	---
Sodium	ppm	2	<1	2	---
Potassium	ppm	3	4	21	---

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 suitable for further service.

WEAR METALS

Iron	ppm	2	6	15	---
Copper	ppm	2	3	8	---
Lead	ppm	0	2	2	---
Tin	ppm	<1	<1	3	---
Aluminum	ppm	2	3	9	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	60	54	4	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	<1	2	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1081	1105	1030	---
Magnesium	ppm	985	931	924	---
Zinc	ppm	1332	1235	1008	---
Phosphorus	ppm	1170	1003	1052	---
Barium	ppm	<1	0	0	---
Boron	ppm	2	2	26	---

Depot: VP297371
Unique No: 10804387
Signed: Angela Borella
Report Date: 27 Dec 2023

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GRAPHS

