

OIL ANALYSIS REPORT



STAN DEAL SRO0100761 VOLVO PENTA A253496 - STARBOARD DIESEL ENGINE

Sample No: VPA058801
Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

SAMPLE INFORMATION

Sample Number	VPA058801	VPA046925	VPA017777	---
Sample Date	27 Jun 2024	29 Aug 2023	11 Feb 2019	---
Machine Hours	0	912	333	---
Oil Hours	0	0	60	---
Oil Changed	N/A	Not Changd	Not Changd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	14.5	14.6	14.23	---
Base Number (BN)	mg KOH/g	10.0	9.8	---	---
Oxidation (PA)	%	55	53	51	---

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.

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0.4	---
Nitration (PA)	%	46	42	62	---
Sulfation (PA)	%	50	48	51	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	4	4	6	---
Sodium	ppm	<1	2	2	---
Potassium	ppm	0	0	2	---

WEAR METALS

Iron	ppm	14	12	12	---
Copper	ppm	5	4	4	---
Lead	ppm	<1	0	<1	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	2	3	2	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	57	58	9	---
Nickel	ppm	<1	<1	1	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1162	1077	1237	---
Magnesium	ppm	1050	1005	599	---
Zinc	ppm	1371	1276	702	---
Phosphorus	ppm	1125	1064	658	---
Barium	ppm	0	0	0	---
Boron	ppm	4	7	107	---

Depot: VP99031103
Unique No: 11102458
Signed: Jonathan Hester
Report Date: 02 Jul 2024

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GRAPHS

