

OIL ANALYSIS REPORT

VOLVO PENTA

NIGEL MANSELL GT6001 VOLVO PENTA 2013841439 - STARBOARD DIESEL ENGINE

Sample No: VPA050530

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

SAMPLE INFORMATION

Sample Number	VPA050530	VPA041398	VPA043902	---
Sample Date	21 Jul 2023	28 Feb 2023	24 Jun 2022	---
Machine Hours	400	253	180	---
Oil Hours	150	120	80	---
Oil Changed	Changed	Not Changd	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

GRAND BANKS

450 SW SALEM RD

STUART, FL

US 34994

Contact: ROBERT ANTONA

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F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	█ 13.0	█ 13.3	---
Base Number (BN)	mg KOH/g	█ 8.9	█ 10.2	█ 10.1	---
Oxidation (PA)	%	58	55	51	---

CONTAMINATION

Soot %	%	█ 0.4	█ 0.2	█ 0.1	---
Nitration (PA)	%	59	48	41	---
Sulfation (PA)	%	54	52	49	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	█ 8	█ 6	█ 9	---
Sodium	ppm	█ 0	█ 1	█ <1	---
Potassium	ppm	█ 2	█ <1	█ 6	---

WEAR METALS

Iron	ppm	█ 10	█ 6	█ 6	---
Copper	ppm	█ 2	█ 2	█ 4	---
Lead	ppm	█ <1	█ 0	█ <1	---
Tin	ppm	█ <1	█ 0	█ 1	---
Aluminum	ppm	█ 2	█ <1	█ 2	---
Chromium	ppm	█ <1	█ 0	█ <1	---
Molybdenum	ppm	█ 62	█ 60	█ 58	---
Nickel	ppm	█ <1	█ 0	█ <1	---
Titanium	ppm	█ 0	█ 0	█ <1	---
Silver	ppm	█ 0	█ 0	█ <1	---
Manganese	ppm	█ <1	█ <1	█ <1	---
Vanadium	ppm	0	0	<1	---

ADDITIVES

Calcium	ppm	█ 1107	█ 1087	█ 1059	---
Magnesium	ppm	█ 979	█ 953	█ 985	---
Zinc	ppm	█ 1232	█ 1236	█ 1333	---
Phosphorus	ppm	█ 1054	█ 1032	█ 1052	---
Barium	ppm	█ 1	█ 0	█ 0	---
Boron	ppm	█ 0	█ 1	█ 4	---

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: VP531377

Unique No: 10578787

Signed: Sean Felton

Report Date: 02 Aug 2023

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GRAPHS

