

OIL ANALYSIS REPORT

VOLVO PENTA

VOLVO PENTA A192291 - STARBOARD DIESEL ENGINE

Sample No: VPA060936

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

SAMPLE INFORMATION

Sample Number	VPA060936	---	---	---
Sample Date	04 Apr 2024	---	---	---
Machine Hours	273	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

FDDA FT PIERCE - POWER CENTER

FORT PIERCE, FL
US

Contact: KYLE GRASER
k.graser@kirbycorp.com

T:
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.61	---	---	---
Base Number (BN)	mg KOH/g	█ 10.0	---	---	---
Oxidation (PA)	%	56	---	---	---

Diagnosis

No corrective action is recommended at this time. 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	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	41	---	---	---
Sulfation (PA)	%	51	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ 3	---	---	---

WEAR METALS

Iron	ppm	█ 7	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 11	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 47	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1160	---	---	---
Magnesium	ppm	█ 800	---	---	---
Zinc	ppm	█ 1222	---	---	---
Phosphorus	ppm	█ 1032	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 25	---	---	---

Depot: VP208659
Unique No: 10965280
Signed: Doug Bogart
Report Date: 05 Apr 2024

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GRAPHS

