

OIL ANALYSIS REPORT

VOLVO PENTA

DORRIS VOLVO PENTA 2204155404 - STARBOARD DIESEL ENGINE

Sample No: VPA060000

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

SAMPLE INFORMATION

Sample Number	VPA060000	---	---	---
Sample Date	15 Apr 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	SEVERE	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 15.4	---	---	---
Base Number (BN)	mg KOH/g	█ 8.4	---	---	---
Oxidation (PA)	%	84	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	82	---	---	---
Sulfation (PA)	%	64	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	▲ 208	---	---	---
Sodium	ppm	█ 6	---	---	---
Potassium	ppm	█ 11	---	---	---

WEAR METALS

Iron	ppm	█ 50	---	---	---
Copper	ppm	█ 15	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 4	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 24	---	---	---
Nickel	ppm	█ 3	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 2377	---	---	---
Magnesium	ppm	█ 112	---	---	---
Zinc	ppm	█ 1351	---	---	---
Phosphorus	ppm	█ 1089	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 219	---	---	---

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Diagnosis

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot: VP152133
Unique No: 10990463
Signed: Jonathan Hester
Report Date: 24 Apr 2024

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GRAPHS

