

OIL ANALYSIS REPORT

VOLVO PENTA

BUMGARNER 125443 VOLVO PENTA 2061121225 - STARBOARD DIESEL ENGINE

Sample No: VPA057059

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA057059	---	---	---
Sample Date	15 Apr 2024	---	---	---
Machine Hours	1492	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	ABNORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	▲ 18.2	---	---	---
Base Number (BN)	mg KOH/g	■ 7.8	---	---	---
Oxidation (PA)	%	83	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 2.4	---	---	---
Nitration (PA)	%	96	---	---	---
Sulfation (PA)	%	70	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	■ 9	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ 10	---	---	---

WEAR METALS

Iron	ppm	▲ 89	---	---	---
Copper	ppm	■ 66	---	---	---
Lead	ppm	■ 11	---	---	---
Tin	ppm	■ 4	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ 4	---	---	---
Molybdenum	ppm	■ 24	---	---	---
Nickel	ppm	▲ 14	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ <1	---	---	---
Manganese	ppm	■ 1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	■ 2648	---	---	---
Magnesium	ppm	■ 13	---	---	---
Zinc	ppm	■ 1346	---	---	---
Phosphorus	ppm	■ 1080	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 39	---	---	---

Diesel Plus

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Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level is abnormal. Valve wear is indicated. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot: VP1287670

Unique No: 10989455

Signed: Jonathan Hester

Report Date: 25 Apr 2024

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GRAPHS

