

OIL ANALYSIS REPORT

VOLVO PENTA

JOHAN - 44 TIARA SAM VOLVO PENTA A870290 - PORT DIESEL ENGINE

Sample No: VPA056441

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

SAMPLE INFORMATION

Sample Number	VPA056441	---	---	---
Sample Date	23 Jun 2023	---	---	---
Machine Hours	254	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	---	---	---
Base Number (BN)	mg KOH/g	█ 9.8	---	---	---
Oxidation (PA)	%	62	---	---	---

CONTAMINATION

Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	48	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 3	---	---	---

WEAR METALS

Iron	ppm	█ 18	---	---	---
Copper	ppm	█ 4	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ <1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 58	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1107	---	---	---
Magnesium	ppm	█ 985	---	---	---
Zinc	ppm	█ 1272	---	---	---
Phosphorus	ppm	█ 1036	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 2	---	---	---

MARINE DIESEL SERVICES INC

1711 WHITTIER AVE, SUITE B
COSTA MESA, CA
US 92627
Contact: BEN ALMAZAN
marinedieselservices@outlook.com
T: (949)612-8180
F: x:

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: VP288530
Unique No: 10546802
Signed: Don Baldrige
Report Date: 07 Jul 2023

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GRAPHS

