

OIL ANALYSIS REPORT

VOLVO PENTA

GRANT GRANT VOLVO PENTA GRANT - STARBOARD DIESEL ENGINE

Sample No: VPA058302

Oil Type: {unknown}

SAMPLE INFORMATION

Sample Number	VPA058302	---	---	---
Sample Date	03 Jan 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

Harry's Marine Service LLC

1141 N. Citrus St.

Orange, CA

US 92887

Contact: TARAH AULD

info@harrismarine.com

T: (714)771-7899

F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.13	---	---	---
Base Number (BN)	mg KOH/g	█ 9.4	---	---	---
Oxidation (PA)	%	55	---	---	---

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 acceptable for the time in service.

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	44	---	---	---
Sulfation (PA)	%	50	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 6	---	---	---

WEAR METALS

Iron	ppm	█ 8	---	---	---
Copper	ppm	█ 6	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 57	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1062	---	---	---
Magnesium	ppm	█ 841	---	---	---
Zinc	ppm	█ 1133	---	---	---
Phosphorus	ppm	█ 1012	---	---	---
Barium	ppm	█ 10	---	---	---
Boron	ppm	█ 9	---	---	---

Depot: VP867279

Unique No: 10817243

Signed: Doug Bogart

Report Date: 04 Jan 2024

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

