

OIL ANALYSIS REPORT

VOLVO PENTA

GALTEX PILOTS SERVICE VOLVO PENTA 10132152795 - STARBOARD DIESEL ENGINE

Sample No: VPA060144

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA060144	VPA060547	---	---
Sample Date	04 Mar 2024	21 Aug 2023	---	---
Machine Hours	3560	2500	---	---
Oil Hours	0	373	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.9	█ 13.8	---	---
Base Number (BN)	mg KOH/g	█ 7.8	█ 6.5	---	---
Oxidation (PA)	%	61	64	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.3	█ 0.5	---	---
Nitration (PA)	%	59	68	---	---
Sulfation (PA)	%	54	58	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 4	█ 4	---	---
Sodium	ppm	█ <1	█ 2	---	---
Potassium	ppm	█ 3	█ 3	---	---

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 suitable for further service.

WEAR METALS

Iron	ppm	█ 0	█ 8	---	---
Copper	ppm	█ 0	█ <1	---	---
Lead	ppm	█ 2	█ 0	---	---
Tin	ppm	█ 0	█ <1	---	---
Aluminum	ppm	█ <1	█ <1	---	---
Chromium	ppm	█ <1	█ 0	---	---
Molybdenum	ppm	█ 28	█ 25	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 0	█ 0	---	---
Vanadium	ppm	<1	<1	---	---

ADDITIVES

Calcium	ppm	█ 2314	█ 2063	---	---
Magnesium	ppm	█ 144	█ 199	---	---
Zinc	ppm	█ 1284	█ 1249	---	---
Phosphorus	ppm	█ 1011	█ 1016	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 78	108	---	---

Depot: VP680026

Unique No: 10915966

Signed: Don Baldrige

Report Date: 11 Mar 2024

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GRAPHS

