

OIL ANALYSIS REPORT



PATRIOT A1023206 - CENTER DIESEL ENGINE

Sample No: VPA052364
Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA052364	VPA044666	---	---
Sample Date	19 Feb 2024	31 Jan 2023	---	---
Machine Hours	141	0	---	---
Oil Hours	34	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 14.0	█ 14.0	---	---
Base Number (BN)	mg KOH/g	█ 9.0	█ 7.6	---	---
Oxidation (PA)	%	61	52	---	---

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.

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.1	█ 0.1	---	---
Nitration (PA)	%	49	58	---	---
Sulfation (PA)	%	52	49	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 6	█ 7	---	---
Sodium	ppm	█ 0	█ 2	---	---
Potassium	ppm	█ 4	█ 3	---	---

WEAR METALS

Iron	ppm	█ 8	█ 8	---	---
Copper	ppm	█ 2	█ 2	---	---
Lead	ppm	█ <1	█ <1	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 2	█ 4	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 35	█ 70	---	---
Nickel	ppm	█ <1	█ 0	---	---
Titanium	ppm	█ <1	█ 0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	█ 1841	█ 2076	---	---
Magnesium	ppm	█ 284	█ 30	---	---
Zinc	ppm	█ 1142	█ 1141	---	---
Phosphorus	ppm	█ 998	█ 980	---	---
Barium	ppm	█ 0	█ <1	---	---
Boron	ppm	█ 125	█ 111	---	---

Depot: VP592286
Unique No: 10928141
Signed: Don Baldrige
Report Date: 18 Mar 2024

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VOLVO PENTA

GRAPHS

