

OIL ANALYSIS REPORT

VOLVO PENTA

RISA 3969 M52322 - CENTER DIESEL ENGINE

Sample No: VPA058927

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA058927	VPA028793	---	---
Sample Date	15 Dec 2023	15 Nov 2021	---	---
Machine Hours	574	532	---	---
Oil Hours	22	0	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	14.0	13.9	---	---
Base Number (BN)	mg KOH/g	8.8	---	---	---
Oxidation (PA)	%	66	70	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	50	53	---	---
Sulfation (PA)	%	55	59	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	3	3	---	---
Sodium	ppm	0	5	---	---
Potassium	ppm	6	8	---	---

WEAR METALS

Iron	ppm	3	6	---	---
Copper	ppm	3	7	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	1	1	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	1	<1	---	---
Nickel	ppm	<1	<1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	2154	2203	---	---
Magnesium	ppm	27	11	---	---
Zinc	ppm	1209	1098	---	---
Phosphorus	ppm	1023	1006	---	---
Barium	ppm	0	0	---	---
Boron	ppm	179	199	---	---

The Talaria Company

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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: VP592286

Unique No: 10830423

Signed: Don Baldrige

Report Date: 15 Jan 2024

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GRAPHS

