

OIL ANALYSIS REPORT

VOLVO PENTA

CHRISTIAN RAKSHYS 507579 CATERPILLAR 3GSO1514 - PORT DIESEL ENGINE

Sample No: VPA059599

Oil Type: SHELL ROTELLA T4 15W40

SAMPLE INFORMATION

Sample Number	VPA059599	VPA044129	---	---
Sample Date	19 Dec 2023	25 Dec 2022	---	---
Machine Hours	0	0	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	▲ 11.3	■ 13.1	---	---
Base Number (BN)	mg KOH/g	■ 7.9	■ 8.6	---	---
Oxidation (PA)	%	37	62	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.5	■ 0.2	---	---
Nitration (PA)	%	48	72	---	---
Sulfation (PA)	%	43	54	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	■ 0.2	<1.0	---	---
Silicon	ppm	■ 7	■ 10	---	---
Sodium	ppm	■ 4	■ 3	---	---
Potassium	ppm	■ 0	■ <1	---	---

WEAR METALS

Iron	ppm	■ 25	■ 54	---	---
Copper	ppm	■ 27	■ 9	---	---
Lead	ppm	■ 1	■ 2	---	---
Tin	ppm	■ <1	■ 1	---	---
Aluminum	ppm	■ 6	■ 5	---	---
Chromium	ppm	■ 2	■ 3	---	---
Molybdenum	ppm	■ 105	■ 40	---	---
Nickel	ppm	■ <1	■ 0	---	---
Titanium	ppm	■ <1	■ <1	---	---
Silver	ppm	■ <1	■ <1	---	---
Manganese	ppm	■ <1	■ <1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	■ 2505	■ 1544	---	---
Magnesium	ppm	■ 119	■ 604	---	---
Zinc	ppm	■ 1201	■ 970	---	---
Phosphorus	ppm	■ 1115	■ 850	---	---
Barium	ppm	■ <1	■ 0	---	---
Boron	ppm	■ 9	■ 61	---	---

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Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VP543511
Unique No: 10804390
Signed: Angela Borella
Report Date: 29 Dec 2023

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GRAPHS

