

OIL ANALYSIS REPORT

VOLVO PENTA

LE PRIX 3135 M51063 - PORT DIESEL ENGINE

Sample No: VPA044195

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA044195	VPA024703	VPA024628	---
Sample Date	14 Dec 2022	17 Jan 2019	28 Sep 2018	---
Machine Hours	207	0	104	---
Oil Hours	25	0	0	---
Oil Changed	Changed	N/A	N/A	---
Sample Status	NORMAL	NORMAL	NORMAL	---

OIL CONDITION

Visc @ 100°C	cSt	█ 14.0	█ 13.81	█ 14.85	---
Base Number (BN)	mg KOH/g	█ 8.9	---	---	---
Oxidation (PA)	%	67	48	47	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	█ 0.1	█ 0.1	█ 0.1	---
Nitration (PA)	%	53	48	43	---
Sulfation (PA)	%	57	43	43	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	█ 3	█ 4	█ 4	---
Sodium	ppm	█ 3	█ 7	█ 4	---
Potassium	ppm	█ 6	█ 0	█ 8	---

WEAR METALS

Iron	ppm	█ 6	█ 17	█ 10	---
Copper	ppm	█ 4	█ 9	█ 3	---
Lead	ppm	█ <1	█ 4	█ <1	---
Tin	ppm	█ <1	█ 0	█ 0	---
Aluminum	ppm	█ 1	█ 2	█ 2	---
Chromium	ppm	█ <1	█ <1	█ <1	---
Molybdenum	ppm	█ 2	█ 50	█ 46	---
Nickel	ppm	█ 0	█ 1	█ 1	---
Titanium	ppm	█ 0	█ <1	█ <1	---
Silver	ppm	█ 0	█ 0	█ 0	---
Manganese	ppm	█ <1	<1	█ <1	---
Vanadium	ppm	0	<1	0	---

ADDITIVES

Calcium	ppm	█ 2214	█ 1450	█ 1360	---
Magnesium	ppm	█ 29	█ 847	█ 872	---
Zinc	ppm	█ 1123	█ 1154	█ 1060	---
Phosphorus	ppm	█ 987	█ 1005	█ 946	---
Barium	ppm	█ 0	█ 0	█ 0	---
Boron	ppm	█ 194	█ 41	█ 38	---

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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 suitable for further service.

Depot: VP592286

Unique No: 10293765

Signed: Jonathan Hester

Report Date: 17 Jan 2023

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GRAPHS

