

OIL ANALYSIS REPORT

**VOLVO
PENTA**

LE PRIX 3135 M51066 - STARBOARD DIESEL ENGINE

Sample No: VPA044197

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA044197	VPA024693	VPA024631	---
Sample Date	14 Dec 2022	17 Jan 2019	28 Sep 2018	---
Machine Hours	98	0	105	---
Oil Hours	18	0	0	---
Oil Changed	Changed	N/A	N/A	---
Sample Status	NORMAL	NORMAL	NORMAL	---

OIL CONDITION

Visc @ 100°C	cSt	█ 14.0	█ 13.99	█ 14.84	---
Base Number (BN)	mg KOH/g	█ 9.1	---	---	---
Oxidation (PA)	%	67	50	48	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	█ 0.1	█ 0.1	█ 0.1	---
Nitration (PA)	%	55	50	44	---
Sulfation (PA)	%	57	44	43	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	█ 3	█ 3	█ 4	---
Sodium	ppm	█ 3	█ 5	█ 3	---
Potassium	ppm	█ 6	█ 0	█ 3	---

WEAR METALS

Iron	ppm	█ 4	█ 9	█ 6	---
Copper	ppm	█ 6	█ 11	█ 6	---
Lead	ppm	█ <1	█ 0	█ 1	---
Tin	ppm	█ <1	█ 0	█ 0	---
Aluminum	ppm	█ <1	█ 1	█ 1	---
Chromium	ppm	█ <1	█ <1	█ <1	---
Molybdenum	ppm	█ 2	█ 52	█ 47	---
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	█ 2184	█ 1476	█ 1380	---
Magnesium	ppm	█ 31	█ 863	█ 870	---
Zinc	ppm	█ 1119	█ 1179	█ 1074	---
Phosphorus	ppm	█ 984	█ 1032	█ 937	---
Barium	ppm	█ 0	█ 0	█ 0	---
Boron	ppm	█ 191	█ 42	█ 39	---

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 suitable for further service.

Depot: VP592286

Unique No: 10293720

Signed: Jonathan Hester

Report Date: 17 Jan 2023

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GRAPHS

