

OIL ANALYSIS REPORT

VOLVO PENTA

YOLO 3782/1/30/3071 M52399 - DIESEL ENGINE

Sample No: VPA056893

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA056893	VPA044207	VPA025344	---
Sample Date	02 Nov 2023	04 Nov 2022	13 Dec 2021	---
Machine Hours	1212	2094	2075	---
Oil Hours	320	18	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

OIL CONDITION

Visc @ 100°C	cSt	13.2	13.5	12.7	---
Base Number (BN)	mg KOH/g	8.3	10.2	9.7	---
Oxidation (PA)	%	63	69	65	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0.2	---
Nitration (PA)	%	50	52	54	---
Sulfation (PA)	%	56	61	62	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	10	5	---
Sodium	ppm	2	5	20	---
Potassium	ppm	7	7	1	---

WEAR METALS

Iron	ppm	3	4	14	---
Copper	ppm	34	42	75	---
Lead	ppm	0	2	3	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	1	1	3	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	11	13	93	---
Nickel	ppm	0	<1	<1	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	0	<1	<1	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	<1	<1	---

ADDITIVES

Calcium	ppm	2114	2080	1515	---
Magnesium	ppm	33	107	687	---
Zinc	ppm	1106	1219	930	---
Phosphorus	ppm	947	964	810	---
Barium	ppm	0	0	0	---
Boron	ppm	214	204	265	---

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: 10751221
Signed: Angela Borella
Report Date: 21 Nov 2023

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GRAPHS

