

OIL ANALYSIS REPORT

**VOLVO
PENTA**

BRINE JB CUMMINS 45945287 - DIESEL ENGINE

Sample No: VPA057070

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA057070	VPA034408	VPA024439	VPA024104
Sample Date	01 Dec 2023	02 Dec 2020	25 Nov 2019	06 Dec 2018
Machine Hours	1481	1401	1364	1332
Oil Hours	0	37	32	33
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Point Judith Marina

360 Gooseberry Road
WAKEFIELD, RI
US 02879

Contact: MATT ST. ANGELO
service@pjmarina.com;canastasio@wearcheckusa.com
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OIL CONDITION

Visc @ 100°C	cSt	14.3	14.4	14.4	14.71
Base Number (BN)	mg KOH/g	8.2	---	---	---
Oxidation (PA)	%	66	71	69	69

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	48	53	52	49
Sulfation (PA)	%	55	60	57	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	4	5
Sodium	ppm	8	2	3	2
Potassium	ppm	2	8	8	0

WEAR METALS

Iron	ppm	17	10	11	23
Copper	ppm	2	<1	2	3
Lead	ppm	0	<1	<1	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	3	3	8	16
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	59	2	3	2
Nickel	ppm	0	<1	<1	1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1275	2277	2132	2274
Magnesium	ppm	877	24	18	13
Zinc	ppm	1281	1204	1030	1085
Phosphorus	ppm	1057	1050	860	906
Barium	ppm	0	0	0	<1
Boron	ppm	21	237	170	157

Diagnosis

Oil and filter change at the time of sampling has been noted. 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: VP153811
Unique No: 10777225
Signed: Angela Borella
Report Date: 08 Dec 2023

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GRAPHS

