

OIL ANALYSIS REPORT

VOLVO PENTA

JACOBS BUD VOLVO 2006007207 - STARBOARD DIESEL ENGINE

Sample No: VPA036868

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA036868	VPA041075	VPA032968	VPA024129
Sample Date	28 Oct 2023	02 Oct 2022	11 Nov 2020	25 Oct 2018
Machine Hours	779	739	635	523
Oil Hours	0	0	112	41
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

Point Judith Marina

360 Gooseberry Road
WAKEFIELD, RI
US 02879

Contact: MATT ST. ANGELO
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T: (401)789-7189
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OIL CONDITION

Visc @ 100°C	cSt	14.5	13.6	13.6	13.99
Base Number (BN)	mg KOH/g	8.6	10.8	---	---
Oxidation (PA)	%	69	73	66	44

CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	58	73	68	53
Sulfation (PA)	%	56	61	56	40
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	8	13
Sodium	ppm	4	1	4	3
Potassium	ppm	8	<1	<1	0

WEAR METALS

Iron	ppm	26	43	39	27
Copper	ppm	2	4	7	8
Lead	ppm	<1	4	4	3
Tin	ppm	<1	<1	1	0
Aluminum	ppm	28	71	25	14
Chromium	ppm	3	6	3	2
Molybdenum	ppm	6	57	60	62
Nickel	ppm	<1	2	2	2
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1928	1011	1006	1182
Magnesium	ppm	98	915	912	1104
Zinc	ppm	1160	1189	1094	1118
Phosphorus	ppm	967	998	1006	1037
Barium	ppm	<1	0	0	<1
Boron	ppm	172	1	2	1

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: VP153811
Unique No: 10723685
Signed: Don Baldrige
Report Date: 02 Nov 2023

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GRAPHS

