

OIL ANALYSIS REPORT



BERNARD PETERS 505801 VOLVO PENTA 7008471671 - STARBOARD DIESEL ENGINE

Sample No: VPA058469

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

SAMPLE INFORMATION

Sample Number	VPA058469	VPA050783	VPA044448	VPA034212
Sample Date	13 Mar 2024	10 Aug 2023	17 Mar 2023	24 Feb 2022
Machine Hours	508	475	403	293
Oil Hours	508	20	150	100
Oil Changed	Changed	Not Changd	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.4	13.4	13.0	13.6
Base Number (BN)	mg KOH/g	10.0	10.2	10.0	11.1
Oxidation (PA)	%	54	55	63	61

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.2	0.5	0.5
Nitration (PA)	%	45	45	53	54
Sulfation (PA)	%	52	51	58	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	8	11	11
Sodium	ppm	<1	0	1	1
Potassium	ppm	<1	<1	<1	0

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.

WEAR METALS

Iron	ppm	9	6	17	10
Copper	ppm	21	20	59	29
Lead	ppm	0	<1	2	3
Tin	ppm	<1	0	0	0
Aluminum	ppm	2	<1	<1	1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	63	66	57	61
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	<1	2	1	1
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1129	1178	1116	1101
Magnesium	ppm	977	985	895	1046
Zinc	ppm	1248	1266	1249	1280
Phosphorus	ppm	1075	1081	953	1109
Barium	ppm	0	2	0	0
Boron	ppm	<1	0	10	2

Depot: VP297371
Unique No: 10940237
Signed: Don Baldrige
Report Date: 25 Mar 2024

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VOLVO PENTA

GRAPHS

