

OIL ANALYSIS REPORT



TYLER LOWELL 505831 VOLVO PENTA A683595 - STARBOARD DIESEL ENGINE

Sample No: VPA062102

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

SAMPLE INFORMATION

Sample Number	VPA062102	VPA044861	VPA042223	VPA032319
Sample Date	27 Mar 2024	08 Feb 2023	25 Aug 2022	11 Mar 2021
Machine Hours	855	688	625	437
Oil Hours	167	100	100	0
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.6	█ 13.6	█ 13.6	█ 13.6
Base Number (BN)	mg KOH/g	█ 9.9	█ 10.2	█ 11.3	---
Oxidation (PA)	%	59	58	61	58

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	█ 0.6	█ 0.2	█ 0.1	█ 0.3
Nitration (PA)	%	61	54	50	49
Sulfation (PA)	%	55	54	55	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	█ 6	█ 5	█ 4	█ 3
Sodium	ppm	█ 0	█ <1	█ 3	█ 2
Potassium	ppm	█ 1	█ 1	█ <1	█ 0

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	█ 15	█ 9	█ 8	█ 11
Copper	ppm	█ 13	█ 5	█ 4	█ 5
Lead	ppm	█ 2	█ <1	█ <1	█ <1
Tin	ppm	█ 1	█ <1	█ <1	█ <1
Aluminum	ppm	█ 2	█ <1	█ 2	█ <1
Chromium	ppm	█ <1	█ <1	█ <1	█ <1
Molybdenum	ppm	█ 65	█ 60	█ 58	█ 58
Nickel	ppm	█ 2	█ 0	█ 3	█ <1
Titanium	ppm	█ <1	█ 0	█ 0	█ 0
Silver	ppm	█ 0	█ 0	█ <1	█ 0
Manganese	ppm	█ <1	█ <1	█ <1	█ <1
Vanadium	ppm	0	0	<1	0

Diagnosis

ADDITIVES

Calcium	ppm	█ 1150	█ 1091	█ 1022	█ 1131
Magnesium	ppm	█ 995	█ 929	█ 922	█ 1010
Zinc	ppm	█ 1229	█ 1241	█ 1238	█ 1246
Phosphorus	ppm	█ 968	█ 1040	█ 1030	█ 1086
Barium	ppm	█ 0	█ 0	█ 1	█ 0
Boron	ppm	█ <1	█ 2	█ 3	█ 4

Depot: VP297371
Unique No: 10954140
Signed: Don Baldrige
Report Date: 03 Apr 2024

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VOLVO PENTA

GRAPHS

