



CONSTRUCTION EQUIPMENT

D12547 VOLVO L70H 624717 - DIESEL ENGINE



Sample No: VCP418686
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: D12547



SAMPLE INFORMATION

Sample Number	VCP418686	VCP381289	VCP419546	VCP407371
Sample Date	04 Aug 2023	28 Jun 2023	24 May 2023	17 Apr 2023
Machine Hours	2770	2570	2349	2217
Oil Hours	421	1051	132	769
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.5	█ 13.7	█ 13.3	█ 13.1
Base Number (BN)	mg KOH/g	█ 10.5	█ 8.3	█ 9.4	█ 8.5
Oxidation (PA)	%	83	87	86	77

CONTAMINATION

Soot %	%	█ 0.4	█ 1.1	█ 1	█ 0.7
Nitration (PA)	%	56	83	83	66
Sulfation (PA)	%	62	64	64	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	█ 6	█ 8	█ 7	█ 6
Sodium	ppm	█ 1	█ 2	█ 0	█ 2
Potassium	ppm	█ <1	█ 2	█ 2	█ 0

WEAR METALS

Iron	ppm	█ 8	█ 31	█ 27	█ 20
Copper	ppm	█ <1	█ 4	█ 2	█ <1
Lead	ppm	█ <1	█ 0	█ 0	█ 0
Tin	ppm	█ <1	█ 2	█ 1	█ <1
Aluminum	ppm	█ 4	█ 11	█ 7	█ 6
Chromium	ppm	█ <1	█ 2	█ 2	█ 2
Molybdenum	ppm	█ 43	█ 66	█ 56	█ 55
Nickel	ppm	█ 0	█ 0	█ <1	█ 0
Titanium	ppm	0	0	0	0
Silver	ppm	█ 0	█ 0	█ 0	█ 0
Manganese	ppm	█ <1	█ <1	█ <1	█ <1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	█ 1796	█ 1984	█ 1813	█ 1900
Magnesium	ppm	█ 530	█ 518	█ 459	█ 547
Zinc	ppm	█ 1200	█ 1242	█ 1111	█ 1209
Phosphorus	ppm	█ 964	█ 993	█ 923	█ 977
Barium	ppm	█ 0	█ 0	█ 0	█ 0
Boron	ppm	█ 44	█ 34	█ 28	█ 40

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 suitable for further service.

Depot: VOLVO0069
Unique No: 10604682
Signed: Wes Davis
Report Date: 16 Aug 2023



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GRAPHS

