



CONSTRUCTION EQUIPMENT

D13254 WM FOND DU LA VOLVO L120H 632883 - DIESEL ENGINE



Sample No: VCP429548
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: D13254 WM FOND DU LA



SAMPLE INFORMATION

Sample Number	VCP429548	VCP440570	VCP414088	VCP419547
Sample Date	19 Jan 2024	20 Dec 2023	05 Oct 2023	12 Jun 2023
Machine Hours	6719	6529	6027	5382
Oil Hours	190	502	1632	490
Oil Changed	Not Chngd	Changed	Changed	Changed
Sample Status	ATTENTION	NORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.9	■ 12.5	▲ 11.8	■ 13.0
Base Number (BN)	mg KOH/g	■ 10.0	■ 9.7	■ 8.0	■ 9.5
Oxidation (PA)	%	79	84	92	93



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.2	■ 0.3	■ 0.6	■ 0.5
Nitration (PA)	%	47	58	65	73
Sulfation (PA)	%	61	64	71	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	■ 0.4	<1.0	■ 0.5	<1.0
Silicon	ppm	■ 5	■ 6	■ 10	■ 9
Sodium	ppm	■ 2	■ <1	■ 2	■ 3
Potassium	ppm	■ 2	■ 1	■ 0	■ 0



WEAR METALS

Iron	ppm	■ 5	■ 9	■ 13	■ 16
Copper	ppm	■ 0	■ <1	■ 2	■ 1
Lead	ppm	■ <1	■ 0	■ 0	■ 0
Tin	ppm	■ <1	■ 0	■ <1	■ <1
Aluminum	ppm	■ 7	■ 7	■ 8	■ 6
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 37	■ 39	■ 32	■ 47
Nickel	ppm	■ <1	■ <1	■ 0	■ 0
Titanium	ppm	0	0	0	0
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ 0	■ <1	■ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 1560	■ 1553	1245	■ 1742
Magnesium	ppm	■ 480	■ 468	■ 336	■ 533
Zinc	ppm	■ 1058	■ 1052	■ 854	■ 1120
Phosphorus	ppm	■ 925	■ 894	■ 710	■ 919
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 73	■ 42	■ 27	■ 41

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VOLVO0069
Unique No: 10849233
Signed: Jonathan Hester
Report Date: 31 Jan 2024



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GRAPHS

