



CONSTRUCTION EQUIPMENT

702528 BULK EXPRESS VOLVO L150H 6937 - DIESEL ENGINE



Sample No: VCP449815
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 702528 BULK EXPRESS



SAMPLE INFORMATION

Sample Number	VCP449815	VCP432364	VCP432660	VCP411670
Sample Date	19 Apr 2024	20 Dec 2023	29 Aug 2023	26 May 2023
Machine Hours	7549	6648	6060	5504
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	■ 12.9	■ 12.6	● 12.3	● 12.4
Base Number (BN)	mg KOH/g	■ 10.1	■ 9.8	■ 10.3	■ 9.3
Oxidation (PA)	%	81	77	82	81

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.1	■ 0.1	■ 0.1	■ 0.1
Nitration (PA)	%	53	57	55	58
Sulfation (PA)	%	60	58	60	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	■ 3	■ 6	■ 4	■ 9
Sodium	ppm	■ 5	■ 0	■ 2	■ <1
Potassium	ppm	■ 2	■ 2	■ 0	■ <1



WEAR METALS

Iron	ppm	■ 1	■ 2	■ 2	■ 5
Copper	ppm	■ 0	■ 19	■ <1	■ 1
Lead	ppm	■ 0	■ 0	■ 0	■ 0
Tin	ppm	■ 0	■ 2	■ <1	■ 0
Aluminum	ppm	■ 0	■ 2	■ 0	■ 0
Chromium	ppm	■ 0	■ 0	■ <1	■ <1
Molybdenum	ppm	■ 43	■ 45	■ 34	■ 43
Nickel	ppm	■ 0	■ <1	■ 0	■ <1
Titanium	ppm	0	0	0	0
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ 0	■ <1	■ <1	■ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 1838	■ 1507	■ 1472	■ 1620
Magnesium	ppm	■ 585	■ 638	■ 423	■ 557
Zinc	ppm	■ 1263	■ 1250	■ 955	■ 1130
Phosphorus	ppm	■ 1060	■ 1027	■ 782	■ 930
Barium	ppm	■ 0	■ 0	■ 2	■ 0
Boron	ppm	■ 39	■ 39	■ 39	■ 35

Depot: VOLVO0093
Unique No: 10994113
Signed: Wes Davis
Report Date: 25 Apr 2024



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VOLVO GRAPHS

