



CONSTRUCTION EQUIPMENT

620770 MOSAIC VOLVO L260H 1258 - DIESEL ENGINE



Sample No: VCP430780
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 620770 MOSAIC



SAMPLE INFORMATION

Sample Number	VCP430780	VCP422670	VCP402998	VCP390692
Sample Date	19 Oct 2023	27 Jun 2023	17 Feb 2023	04 Oct 2022
Machine Hours	3922	3304	2683	2102
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	NORMAL	MARGINAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.2	■ 12.5	▲ 12.4	■ 13.2
Base Number (BN)	mg KOH/g	■ 9.5	■ 9.0	■ 9.7	■ 10.9
Oxidation (PA)	%	80	82	82	87



CONTAMINATION

Soot %	%	■ 0.1	■ 0.1	■ 0.1	■ 0.1
Nitration (PA)	%	65	70	63	62
Sulfation (PA)	%	59	59	62	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	■ 0.7	<1.0	■ 0.9	<1.0
Silicon	ppm	■ 6	■ 11	■ 6	■ 7
Sodium	ppm	■ 2	■ 3	■ 2	■ 3
Potassium	ppm	■ 0	■ 3	■ 0	■ 2



WEAR METALS

Iron	ppm	■ 6	■ 12	■ 6	■ 4
Copper	ppm	■ 2	■ 6	■ 2	■ 8
Lead	ppm	■ <1	■ 0	■ <1	■ 1
Tin	ppm	■ <1	■ <1	■ <1	■ 1
Aluminum	ppm	■ <1	■ 3	■ 1	■ 3
Chromium	ppm	■ 0	■ 0	■ <1	■ <1
Molybdenum	ppm	■ 45	■ 50	■ 38	■ 39
Nickel	ppm	■ <1	■ <1	■ 0	■ <1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	■ 0	■ 0	■ <1	■ 0
Manganese	ppm	■ <1	■ <1	■ 1	■ 1
Vanadium	ppm	0	<1	<1	1



ADDITIVES

Calcium	ppm	■ 1653	■ 1765	■ 1594	■ 1659
Magnesium	ppm	■ 526	■ 526	■ 484	■ 473
Zinc	ppm	■ 1157	■ 1114	■ 1016	■ 1092
Phosphorus	ppm	■ 966	■ 953	■ 847	■ 917
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 28	■ 33	■ 31	■ 32

Diagnosis

Oil and filter change at the time of sampling has been noted. 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.

Depot: VOLVO0093
Unique No: 10741862
Signed: Don Baldrige
Report Date: 17 Nov 2023



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VOLVO GRAPHS

