



CONSTRUCTION EQUIPMENT

VOLVO L150 60742 - DIESEL ENGINE



Sample No: VCP453573

Oil Type: MOBIL 15W40

Job No:



SAMPLE INFORMATION

Sample Number	VCP453573	VCP307512	VCP312515	VCP392520
Sample Date	09 May 2024	27 Feb 2024	29 Nov 2023	01 Aug 2023
Machine Hours	35039	34887	34546	34339
Oil Hours	152	341	207	150
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	MARGINAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.3	■ 12.8	■ 12.8	■ 12.8
Base Number (BN)	mg KOH/g	■ 9.2	■ 8.2	■ 9.5	■ 9.4
Oxidation (PA)	%	68	64	69	74

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. Light fuel dilution occurring. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.3	■ 0.4	■ 0.4	■ 0.4
Nitration (PA)	%	57	68	54	53
Sulfation (PA)	%	56	53	57	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	▲ 4.1	<1.0	<1.0	<1.0
Silicon	ppm	■ 5	■ 5	■ 9	■ 4
Sodium	ppm	■ 3	■ 3	■ <1	■ 3
Potassium	ppm	■ 2	■ 0	■ 2	■ 1



WEAR METALS

Iron	ppm	■ 6	■ 6	■ 9	■ 6
Copper	ppm	■ <1	■ 2	■ 2	■ 2
Lead	ppm	■ <1	■ <1	■ 2	■ 1
Tin	ppm	■ 0	■ 0	■ 1	■ <1
Aluminum	ppm	■ 3	■ 4	■ 4	■ <1
Chromium	ppm	■ 0	■ 0	■ <1	■ <1
Molybdenum	ppm	■ 67	■ 87	■ 69	■ 41
Nickel	ppm	■ 0	■ 0	■ <1	■ 0
Titanium	ppm	0	0	<1	<1
Silver	ppm	■ 0	■ 0	■ 0	■ <1
Manganese	ppm	■ <1	■ 0	■ <1	■ <1
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	■ 1773	■ 1465	■ 1558	■ 1799
Magnesium	ppm	■ 570	■ 604	■ 535	■ 512
Zinc	ppm	■ 944	■ 820	■ 878	■ 928
Phosphorus	ppm	■ 800	■ 751	■ 728	■ 763
Barium	ppm	■ 0	■ 0	■ 11	■ 0
Boron	ppm	■ 91	■ 105	■ 91	■ 58

Depot: SCHGRE
Unique No: 11074828
Signed: Jonathan Hester
Report Date: 18 Jun 2024

VOLVO **GRAPHS**

