



CONSTRUCTION EQUIPMENT

10046 TOLSON VOLVO A25G 742141 - DIESEL ENGINE



Sample No: VCP422153
Oil Type: CHEVRON 15W40
Job No: 10046 TOLSON



SAMPLE INFORMATION

Sample Number	VCP422153	VCP413687	VCP408898	VCP416473
Sample Date	07 Dec 2023	20 Sep 2023	31 Jul 2023	12 Jul 2023
Machine Hours	3701	3413	3199	3101
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	ATTENTION	NORMAL	NORMAL	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.6	■ 11.9	■ 12.9	▲ 12.1
Base Number (BN)	mg KOH/g	■ 7.2	■ 7.7	■ 8.5	■ 9.6
Oxidation (PA)	%	59	61	59	70

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. 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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.1	■ 0.2	■ 0.1	■ 0.3
Nitration (PA)	%	53	54	42	56
Sulfation (PA)	%	57	58	57	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	■ 3.1	■ 1.1	▲ 2.2
Silicon	ppm	■ 4	■ 4	■ 2	■ 4
Sodium	ppm	■ 0	■ 1	■ 0	■ 1
Potassium	ppm	■ 2	■ <1	■ 2	■ 0



WEAR METALS

Iron	ppm	■ 4	■ 4	■ 2	■ 6
Copper	ppm	■ <1	■ <1	■ <1	■ <1
Lead	ppm	■ <1	■ 0	■ 0	■ 0
Tin	ppm	■ <1	■ <1	■ 0	■ <1
Aluminum	ppm	■ 2	■ <1	■ <1	■ <1
Chromium	ppm	■ <1	■ <1	■ 0	■ <1
Molybdenum	ppm	■ 83	■ 80	■ 90	■ 42
Nickel	ppm	■ <1	■ 0	■ 0	■ 0
Titanium	ppm	2	2	2	<1
Silver	ppm	■ 0	■ 0	■ <1	■ 0
Manganese	ppm	■ <1	■ <1	■ 0	■ <1
Vanadium	ppm	0	<1	0	<1



ADDITIVES

Calcium	ppm	■ 1329	■ 1445	■ 1576	■ 1787
Magnesium	ppm	■ 376	■ 409	■ 398	■ 450
Zinc	ppm	■ 1185	■ 1230	■ 1277	■ 1104
Phosphorus	ppm	■ 970	■ 1025	■ 1144	■ 910
Barium	ppm	■ 11	■ 0	■ 2	■ 0
Boron	ppm	■ 440	■ 450	■ 533	■ 77

Depot: PLECLA
Unique No: 10782844
Signed: Jonathan Hester
Report Date: 15 Dec 2023



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VOLVO GRAPHS

