



CONSTRUCTION EQUIPMENT

VOLVO A30G 742515 - DIESEL ENGINE



Sample No: VCP412691
Oil Type: CHEVRON DELO 400 XLE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP412691	VCP361154	---	---
Sample Date	17 Aug 2023	30 Sep 2022	---	---
Machine Hours	2000	1500	---	---
Oil Hours	500	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	ATTENTION	---	---

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 3995 CONTINENTAL DRIVE
 COLUMBIA, PA
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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.0	▲ 11.9	---	---
Base Number (BN)	mg KOH/g	■ 6.5	■ 7.8	---	---
Oxidation (PA)	%	■ 50	■ 62	---	---

CONTAMINATION

Soot %	%	■ 0.3	■ 0.3	---	---
Nitration (PA)	%	■ 68	■ 82	---	---
Sulfation (PA)	%	■ 50	■ 57	---	---
Glycol	%	■ NEG	■ NEG	---	---
Fuel	%	■ <1.0	■ 2.0	---	---
Silicon	ppm	■ 6	■ 6	---	---
Sodium	ppm	■ 2	■ 16	---	---
Potassium	ppm	■ <1	■ <1	---	---

Diagnosis

The oil 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.

WEAR METALS

Iron	ppm	■ 9	■ 8	---	---
Copper	ppm	■ 4	■ 17	---	---
Lead	ppm	■ 0	■ <1	---	---
Tin	ppm	■ <1	■ <1	---	---
Aluminum	ppm	■ <1	■ <1	---	---
Chromium	ppm	■ <1	■ 2	---	---
Molybdenum	ppm	■ 63	■ 34	---	---
Nickel	ppm	■ 0	■ 0	---	---
Titanium	ppm	■ 3	■ 13	---	---
Silver	ppm	■ 0	■ 1	---	---
Manganese	ppm	■ <1	■ 1	---	---
Vanadium	ppm	■ <1	■ <1	---	---

ADDITIVES

Calcium	ppm	■ 2016	■ 1532	---	---
Magnesium	ppm	■ 366	■ 643	---	---
Zinc	ppm	■ 1196	■ 866	---	---
Phosphorus	ppm	■ 1003	■ 708	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 42	■ 85	---	---

Depot: DHFCOL
Unique No: 10609100
Signed: Sean Felton
Report Date: 22 Aug 2023



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GRAPHS

