



CONSTRUCTION EQUIPMENT

9570 VOLVO A30G 742606 - DIESEL ENGINE



Sample No: VCP413783
Oil Type: CHEVRON 15W40
Job No: 9570



SAMPLE INFORMATION

Sample Number	VCP413783	VCP392770	VCP366628	VCP361912
Sample Date	14 Sep 2023	23 Feb 2023	29 Aug 2022	06 Apr 2022
Machine Hours	4157	3666	3128	2616
Oil Hours	0	0	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	ATTENTION	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.0	▲ 11.5	▲ 12.0	▲ 11.7
Base Number (BN)	mg KOH/g	■ 8.7	■ 7.3	■ 9.7	■ 8.8
Oxidation (PA)	%	66	59	59	66

CONTAMINATION

Soot %	%	■ 0.3	■ 0.3	■ 0.5	■ 0.4
Nitration (PA)	%	52	61	65	70
Sulfation (PA)	%	57	58	56	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	▲ 7.6	▲ 5.1	<1.0	<1.0
Silicon	ppm	■ 5	■ 6	■ 4	■ 5
Sodium	ppm	■ 2	■ 1	■ 0	■ <1
Potassium	ppm	■ <1	■ 2	■ 2	■ <1

WEAR METALS

Iron	ppm	■ 6	■ 6	■ 9	■ 10
Copper	ppm	■ <1	■ <1	■ 2	■ 1
Lead	ppm	■ 0	■ <1	■ <1	■ 1
Tin	ppm	■ <1	■ <1	■ <1	■ <1
Aluminum	ppm	■ 1	■ 2	■ 2	■ 4
Chromium	ppm	■ <1	■ 0	■ <1	■ <1
Molybdenum	ppm	■ 48	■ 92	■ 62	■ 106
Nickel	ppm	■ <1	■ 0	■ 0	■ <1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	0	0	0	<1

ADDITIVES

Calcium	ppm	■ 1616	■ 1564	■ 1158	■ 1588
Magnesium	ppm	■ 407	■ 521	■ 732	■ 613
Zinc	ppm	■ 1092	■ 994	■ 1113	■ 900
Phosphorus	ppm	■ 904	■ 760	■ 942	■ 754
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 129	■ 242	■ 32	■ 266

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Depot: PLECLA
Unique No: 10657356
Signed: Wes Davis
Report Date: 21 Sep 2023



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GRAPHS

