



CONSTRUCTION EQUIPMENT

A10936 VOLVO A30G 742440 - DIESEL ENGINE



Sample No: VCP424766
Oil Type: MOBIL 15W40
Job No: A10936



SAMPLE INFORMATION

Sample Number	VCP424766	VCP367447	VCP362176	VCP310233
Sample Date	25 Aug 2023	14 Nov 2022	05 Mar 2022	23 Jul 2021
Machine Hours	3180	2580	1990	1445
Oil Hours	1000	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.8	▲ 11.4	▲ 11.4	▲ 11.5
Base Number (BN)	mg KOH/g	■ 7.9	■ 10.4	■ 10.6	---
Oxidation (PA)	%	■ 54	■ 79	■ 79	■ 69

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

Soot %	%	■ 0.2	■ 0.2	■ 0.3	■ 0.2
Nitration (PA)	%	■ 64	■ 68	■ 67	■ 59
Sulfation (PA)	%	■ 49	■ 62	■ 63	■ 58
Glycol	%	■ NEG	■ NEG	■ NEG	■ NEG
Fuel	%	■ <1.0	■ <1.0	■ <1.0	■ <1.0
Silicon	ppm	■ 3	■ 4	■ 6	■ 6
Sodium	ppm	■ 2	■ 2	■ 1	■ 2
Potassium	ppm	■ 0	■ 0	■ 0	■ 1



WEAR METALS

Iron	ppm	■ 6	■ 6	■ 8	■ 6
Copper	ppm	■ 1	■ 1	■ 4	■ 22
Lead	ppm	■ 0	■ <1	■ <1	■ 1
Tin	ppm	■ <1	■ <1	■ 0	■ 1
Aluminum	ppm	■ 3	■ 2	■ 2	■ 1
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 52	■ 47	■ 44	■ 46
Nickel	ppm	■ 0	■ 0	■ 0	■ <1
Titanium	ppm	■ <1	■ 0	■ 0	■ <1
Silver	ppm	■ 0	■ 0	■ 0	■ 2
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	■ 0	■ 0	■ 0	■ 0



ADDITIVES

Calcium	ppm	■ 1400	■ 1603	■ 1669	■ 1685
Magnesium	ppm	■ 757	■ 507	■ 512	■ 515
Zinc	ppm	■ 1172	■ 1095	■ 1022	■ 1045
Phosphorus	ppm	■ 1014	■ 879	■ 901	■ 866
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 12	■ 56	■ 57	■ 90

Depot: KCCIVY
Unique No: 10648360
Signed: Sean Felton
Report Date: 19 Sep 2023



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GRAPHS

