



CONSTRUCTION EQUIPMENT

A08851 VOLVO A30G 740076 - DIESEL ENGINE



Sample No: VCP239359
Oil Type: MOBIL 15W40
Job No: A08851



SAMPLE INFORMATION

Sample Number	VCP239359	VCP294474	VCP287936	VCP257182
Sample Date	18 Sep 2022	22 Nov 2021	29 Oct 2020	20 Mar 2020
Machine Hours	5485	4920	4280	3720
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.8	▲ 11.9	■ 12.3	■ 12.1
Base Number (BN)	mg KOH/g	■ 9.0	---	---	---
Oxidation (PA)	%	■ 87	79	71	81

CONTAMINATION

Soot %	%	■ 0.2	■ 0.2	■ 0.2	■ 0.2
Nitration (PA)	%	■ 80	76	73	70
Sulfation (PA)	%	■ 66	61	58	58
Glycol	%	■ NEG	NEG	NEG	NEG
Fuel	%	■ <1.0	■ 0.7	<1.0	<1.0
Silicon	ppm	■ 4	■ 5	■ 6	■ 5
Sodium	ppm	■ 3	■ 3	■ <1	■ 4
Potassium	ppm	■ 0	■ 1	■ 2	■ 3

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.

WEAR METALS

Iron	ppm	■ 7	■ 7	■ 8	■ 6
Copper	ppm	■ 222	▲ 272	■ 215	■ 2
Lead	ppm	■ 2	■ <1	■ <1	■ 1
Tin	ppm	■ <1	■ <1	■ <1	■ 6
Aluminum	ppm	■ <1	■ 1	■ 0	■ 2
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 42	■ 45	■ 26	■ 42
Nickel	ppm	■ 0	■ 0	■ <1	■ <1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	■ 0	■ 0	■ 0	■ 0

ADDITIVES

Calcium	ppm	■ 1733	■ 1664	■ 1475	■ 1618
Magnesium	ppm	■ 504	■ 558	■ 554	■ 529
Zinc	ppm	■ 1060	■ 973	■ 892	■ 830
Phosphorus	ppm	■ 870	■ 902	■ 775	■ 759
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 38	■ 56	■ 54	■ 50

Depot: KCCIVY
Unique No: 10141540
Signed: Jonathan Hester
Report Date: 23 Sep 2022



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GRAPHS

