



CONSTRUCTION EQUIPMENT

125204 VOLVO A40G 342574 - DIESEL ENGINE



Sample No: VCP370136
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 125204



SAMPLE INFORMATION

Sample Number	VCP370136	VCP351838	VCP327688	VCP305220
Sample Date	06 Dec 2022	13 Jan 2022	24 Sep 2021	25 Feb 2021
Machine Hours	5696	4772	4288	3528
Oil Hours	0	300	500	500
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	ABNORMAL	NORMAL	ATTENTION	NORMAL

ALTA EQUIPMENT
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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.9	■ 12.5	● 12.2	■ 12.6
Base Number (BN)	mg KOH/g	■ 12.7	■ 11.2	---	---
Oxidation (PA)	%	85	87	88	84

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. Fuel content negligible. 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	■ 0.4	■ 0.2
Nitration (PA)	%	54	71	81	67
Sulfation (PA)	%	65	65	63	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	■ 0.4	<1.0	■ 0.5	<1.0
Silicon	ppm	■ 7	■ 8	■ 4	■ 8
Sodium	ppm	■ 2	■ 2	■ 3	■ <1
Potassium	ppm	■ <1	■ 1	■ 0	■ <1

WEAR METALS

Iron	ppm	■ 8	■ 10	■ 19	■ 8
Copper	ppm	■ 6	■ 4	■ 4	■ 1
Lead	ppm	■ 0	■ 2	■ <1	■ <1
Tin	ppm	■ 0	■ <1	■ <1	■ <1
Aluminum	ppm	■ 2	■ 2	■ 2	■ <1
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 41	■ 54	■ 45	■ 39
Nickel	ppm	■ 0	■ <1	■ 0	■ 0
Titanium	ppm	0	<1	0	<1
Silver	ppm	■ 0	<1	<1	0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	■ 1729	■ 1713	■ 1670	■ 1655
Magnesium	ppm	■ 495	■ 505	■ 488	■ 498
Zinc	ppm	■ 1129	■ 1187	■ 1080	■ 1073
Phosphorus	ppm	■ 956	■ 966	■ 936	■ 982
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 65	■ 51	■ 30	■ 42

Depot: VOLVO0142
Unique No: 10254264
Signed: Don Baldrige
Report Date: 14 Dec 2022



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GRAPHS

