



CONSTRUCTION EQUIPMENT

9132 VOLVO A25G 740238 - DIESEL ENGINE



Sample No: VCP413837
Oil Type: CHEVRON 15W40
Job No: 9132



SAMPLE INFORMATION

Sample Number	VCP413837	VCP390015	VCP323269	VCP256272
Sample Date	29 Aug 2023	01 Nov 2022	15 Jul 2021	09 Oct 2019
Machine Hours	5838	5355	4702	4194
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	NORMAL	NORMAL

RELIABLE CONTRACTING
 2410 EVERGREEN RD SUITE 200
 GAMBRILLS, MD
 US 21054
 Contact: RUSSELL HATFIELD
 RHATFIELD@RELIABLECONTRACTING.COM
 T: (410)987-1851
 F:

OIL CONDITION

Visc @ 100°C	cSt	▲ 12.1	▲ 11.7	■ 12.2	■ 12.4
Base Number (BN)	mg KOH/g	■ 6.9	■ 8.1	---	---
Oxidation (PA)	%	62	72	61	58

CONTAMINATION

Soot %	%	■ 0.2	■ 0.2	■ 0.2	■ 0.3
Nitration (PA)	%	61	79	82	78
Sulfation (PA)	%	60	66	57	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	▲ 2.7	<1.0	<1.0
Silicon	ppm	■ 6	■ 5	■ 4	■ 3
Sodium	ppm	■ 3	■ 1	■ 2	■ 2
Potassium	ppm	■ 0	■ 0	■ 3	■ 2

WEAR METALS

Iron	ppm	■ 6	■ 6	■ 7	■ 7
Copper	ppm	■ <1	■ 1	■ 4	■ 0
Lead	ppm	■ <1	■ 1	■ 1	■ 0
Tin	ppm	■ 1	■ 1	■ 1	■ <1
Aluminum	ppm	■ 3	■ 4	■ 2	■ 2
Chromium	ppm	■ 0	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 97	■ 107	■ 32	■ 26
Nickel	ppm	■ 0	■ 0	■ <1	■ 0
Titanium	ppm	<1	2	■ 13	■ 13
Silver	ppm	■ 0	0	■ 0	■ 0
Manganese	ppm	■ 0	■ <1	■ <1	■ <1
Vanadium	ppm	<1	0	<1	0

ADDITIVES

Calcium	ppm	■ 1526	■ 1517	■ 1494	■ 1384
Magnesium	ppm	■ 466	■ 626	■ 686	■ 653
Zinc	ppm	■ 1123	■ 823	■ 864	■ 725
Phosphorus	ppm	■ 955	■ 707	■ 747	■ 576
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 424	■ 246	■ 208	■ 31

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.

Depot: RELMIL
Unique No: 10634941
Signed: Don Baldrige
Report Date: 09 Sep 2023



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GRAPHS

