



CONSTRUCTION EQUIPMENT

W07012981-2 VOLVO A25G 742134 - DIESEL ENGINE



Sample No: VCP418134
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: W07012981-2



SAMPLE INFORMATION

Sample Number	VCP418134	VCP331702	VCP325164	VCP253396
Sample Date	27 Jun 2023	12 Jan 2022	07 Jul 2021	24 Oct 2019
Machine Hours	3382	2629	2004	928
Oil Hours	423	0	600	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	NORMAL	NORMAL

McClung-Logan Virginia LLC- RICHMOND
 1345 MOUNTAIN ROAD
 GLEN ALLEN, VA
 US 23060
 Contact: KYLE RATLIFFE
 KRATLIFFE@MCCLUNG-LOGAN.COM
 T:
 F: (804)266-1611



OIL CONDITION

Visc @ 100°C	cSt	▲ 12.4	▲ 11.9	■ 12.5	■ 13.2
Base Number (BN)	mg KOH/g	■ 9.9	■ 11.1	---	---
Oxidation (PA)	%	84	89	82	61



CONTAMINATION

Soot %	%	■ 0.2	■ 0.2	■ 0.2	■ 0.1
Nitration (PA)	%	62	68	72	56
Sulfation (PA)	%	61	66	64	49
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	■ 1.1	<1.0	<1.0
Silicon	ppm	■ 4	■ 6	■ 5	■ 7
Sodium	ppm	■ 2	■ 2	■ 2	■ 6
Potassium	ppm	■ 2	■ 0	■ <1	■ 2



WEAR METALS

Iron	ppm	■ 5	■ 6	■ 6	■ 5
Copper	ppm	■ <1	■ 2	■ 5	■ 55
Lead	ppm	■ 0	■ <1	■ <1	■ <1
Tin	ppm	■ 0	■ <1	■ 1	■ 0
Aluminum	ppm	■ 1	■ <1	■ 1	■ 1
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 43	■ 40	■ 34	■ 38
Nickel	ppm	■ 0	■ 0	■ 0	■ <1
Titanium	ppm	■ 0	0	<1	0
Silver	ppm	■ 0	■ 0	■ <1	■ 0
Manganese	ppm	■ <1	■ <1	■ <1	■ 1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 1725	■ 1786	■ 1662	■ 1324
Magnesium	ppm	■ 581	■ 533	■ 494	■ 646
Zinc	ppm	■ 1209	■ 1214	■ 974	■ 906
Phosphorus	ppm	■ 1005	■ 1014	■ 811	■ 856
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 62	■ 53	■ 72	■ 46

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: VOLVO8882
Unique No: 10545733
Signed: Don Baldrige
Report Date: 06 Jul 2023



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VOLVO GRAPHS

