



CONSTRUCTION EQUIPMENT

WO7013153 VOLVO A35G 340135 - DIESEL ENGINE



Sample No: VCP407231
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: WO7013153



SAMPLE INFORMATION

Sample Number	VCP407231	VCP408196	VCP401263	VCP358959
Sample Date	03 Aug 2023	25 Apr 2023	27 Jan 2023	19 Sep 2022
Machine Hours	8463	7881	7282	6630
Oil Hours	500	500	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	NORMAL	ATTENTION

McClung-Logan Virginia LLC- RICHMOND
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 GLEN ALLEN, VA
 US 23060
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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.3	▲ 11.4	■ 12.5	▲ 12.4
Base Number (BN)	mg KOH/g	■ 7.0	■ 4.0	■ 5.1	■ 7.8
Oxidation (PA)	%	66	46	47	77

CONTAMINATION

Soot %	%	■ 0.4	■ 0.5	■ 0.3	■ 0.2
Nitration (PA)	%	78	68	71	89
Sulfation (PA)	%	54	50	57	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	■ 1.8	<1.0	■ 0.6
Silicon	ppm	■ 5	■ 6	■ 5	■ 4
Sodium	ppm	■ 3	■ 3	■ 1	■ 3
Potassium	ppm	■ <1	■ 0	■ <1	■ 0

WEAR METALS

Iron	ppm	■ 9	■ 12	■ 10	■ 7
Copper	ppm	■ <1	■ <1	■ <1	■ 2
Lead	ppm	■ <1	■ 0	■ <1	■ <1
Tin	ppm	■ <1	■ 0	■ <1	■ <1
Aluminum	ppm	■ 2	■ 5	■ 3	■ 1
Chromium	ppm	■ 0	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 51	■ 54	■ 15	■ 49
Nickel	ppm	■ 1	■ 4	■ 2	■ 1
Titanium	ppm	<1	0	0	0
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	■ 1382	■ 1940	■ 2200	■ 1175
Magnesium	ppm	728	44	94	■ 689
Zinc	ppm	■ 933	■ 986	■ 1002	■ 784
Phosphorus	ppm	■ 735	■ 815	■ 827	■ 593
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 20	■ 20	■ 5	■ 16

Diagnosis

The oil 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: 10603836
Signed: Don Baldrige
Report Date: 15 Aug 2023



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VOLVO GRAPHS

