



CONSTRUCTION EQUIPMENT

VOLVO A30G 752143 - DIESEL ENGINE



Sample No: VCP424503
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP424503	VCP396762	VCP386247	VCP364312
Sample Date	06 Jun 2023	04 Mar 2023	09 Nov 2022	09 Aug 2022
Machine Hours	10602	4274	3742	3258
Oil Hours	500	500	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

RIPA AND ASSOCIATES

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.0	■ 12.3	■ 12.8	■ 13.1
Base Number (BN)	mg KOH/g	■ 9.5	■ 9.4	■ 11.1	■ 10.2
Oxidation (PA)	%	73	80	83	84

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



CONTAMINATION

Soot %	%	■ 0.3	■ 0.3	■ 0.3	■ 0.4
Nitration (PA)	%	65	66	68	74
Sulfation (PA)	%	58	62	64	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	▲ 4.7	■ 0.5	<1.0	<1.0
Silicon	ppm	■ 3	■ 4	■ 3	■ 3
Sodium	ppm	■ 1	■ 2	■ 0	■ 4
Potassium	ppm	■ 0	■ 0	■ 2	■ 0



WEAR METALS

Iron	ppm	■ 4	■ 8	■ 7	■ 8
Copper	ppm	■ <1	■ <1	■ <1	■ 1
Lead	ppm	■ 0	■ 0	■ 0	■ <1
Tin	ppm	■ <1	■ <1	■ <1	■ <1
Aluminum	ppm	■ <1	■ 3	■ 1	■ 3
Chromium	ppm	■ 0	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 37	■ 42	■ 42	■ 39
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	6	3	6	■ 12
Silver	ppm	■ 0	■ 0	■ 0	<1
Manganese	ppm	■ <1	■ 1	■ <1	■ <1
Vanadium	ppm	<1	<1	0	<1



ADDITIVES

Calcium	ppm	■ 1551	■ 1593	■ 1652	■ 1790
Magnesium	ppm	■ 414	■ 488	■ 511	■ 537
Zinc	ppm	■ 1008	■ 1054	■ 1068	■ 1210
Phosphorus	ppm	■ 836	■ 849	■ 922	■ 977
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 37	■ 39	■ 42	■ 44

Depot: RIPTAM
Unique No: 10551673
Signed: Wes Davis
Report Date: 13 Jul 2023



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VOLVO GRAPHS

