



CONSTRUCTION EQUIPMENT

688192 VOLVO A40G 341282 - DIESEL ENGINE



Sample No: VCP438829
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 688192



SAMPLE INFORMATION

Sample Number	VCP438829	VCP429160	VCP368917	VCP373431
Sample Date	03 Apr 2024	02 Oct 2023	29 Nov 2022	25 Jul 2022
Machine Hours	11361	10921	9867	9450
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	MARGINAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.2	■ 12.7	■ 12.8	■ 12.8
Base Number (BN)	mg KOH/g	■ 9.4	■ 8.6	■ 8.9	■ 9.7
Oxidation (PA)	%	59	62	69	63

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.

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.1	■ 0.1	■ 0.1	■ 0.1
Nitration (PA)	%	66	63	86	69
Sulfation (PA)	%	50	53	62	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	■ 2	■ 3	■ 3	■ 2
Sodium	ppm	■ 2	■ <1	■ 3	■ 1
Potassium	ppm	■ <1	■ 0	■ 2	■ <1

WEAR METALS

Iron	ppm	■ 3	■ 2	■ 5	■ 3
Copper	ppm	■ <1	■ 0	■ <1	■ <1
Lead	ppm	■ 1	■ 0	■ 1	■ <1
Tin	ppm	■ 0	■ 0	■ <1	■ <1
Aluminum	ppm	■ <1	■ <1	■ <1	■ <1
Chromium	ppm	■ 0	■ 0	■ <1	■ 0
Molybdenum	ppm	■ 51	■ 60	■ 52	■ 53
Nickel	ppm	■ <1	■ 0	■ 0	■ 0
Titanium	ppm	0	0	<1	0
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	■ 1067	■ 1091	■ 1207	■ 1108
Magnesium	ppm	■ 952	■ 1008	■ 901	■ 911
Zinc	ppm	■ 1149	■ 1329	■ 1183	■ 1223
Phosphorus	ppm	■ 1058	■ 1091	■ 1004	■ 1016
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 1	■ 1	■ 20	■ 13

Depot: BLADET
Unique No: 10968733
Signed: Jonathan Hester
Report Date: 11 Apr 2024



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GRAPHS

