



CONSTRUCTION EQUIPMENT

580266 DIPRO VOLVO A30G 752332 - DIESEL ENGINE



Sample No: VCP411760
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 580266 DIPRO



SAMPLE INFORMATION

Sample Number	VCP411760	VCP396910	VCP388131	VCP340977
Sample Date	14 Jul 2023	17 Jan 2023	06 Oct 2022	21 Mar 2022
Machine Hours	3640	2894	2424	0
Oil Hours	500	500	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	NORMAL

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 56195 PONTIAC TRAIL
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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.4	▲ 12.4	▲ 12.4	■ 12.7
Base Number (BN)	mg KOH/g	■ 8.7	■ 9.4	■ 10.8	■ 10.4
Oxidation (PA)	%	57	56	61	65



CONTAMINATION

Soot %	%	■ 0.3	■ 0.2	■ 0.2	■ 0.3
Nitration (PA)	%	61	58	58	63
Sulfation (PA)	%	51	50	55	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	■ 0.4	<1.0
Silicon	ppm	■ 2	■ 3	■ 2	■ 2
Sodium	ppm	■ 2	■ <1	■ 0	■ <1
Potassium	ppm	■ 0	■ 1	■ 2	■ 0



WEAR METALS

Iron	ppm	■ 10	■ 8	■ 5	■ 11
Copper	ppm	■ <1	■ <1	■ <1	■ 2
Lead	ppm	■ 0	■ 0	■ 0	■ 0
Tin	ppm	■ <1	■ <1	■ <1	■ <1
Aluminum	ppm	■ <1	■ <1	■ <1	■ <1
Chromium	ppm	■ <1	■ <1	■ 0	■ <1
Molybdenum	ppm	■ 66	■ 63	■ 65	■ 56
Nickel	ppm	■ 0	■ 0	■ 0	■ <1
Titanium	ppm	<1	0	0	0
Silver	ppm	■ 0	■ 0	0	<1
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	■ 1263	■ 1095	■ 1140	■ 1241
Magnesium	ppm	■ 962	■ 973	■ 958	927
Zinc	ppm	■ 1313	■ 1280	■ 1305	■ 1142
Phosphorus	ppm	■ 1095	■ 1088	■ 1102	■ 1034
Barium	ppm	■ 0	■ 1	■ 2	■ 0
Boron	ppm	■ 10	■ 0	■ <1	■ 9

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: VOLVO2990
Unique No: 10565407
Signed: Don Baldrige
Report Date: 25 Jul 2023



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VOLVO GRAPHS

