



CONSTRUCTION EQUIPMENT

673791 DIPRO VOLVO A30G 752362 - DIESEL ENGINE



Sample No: VCP445989
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 673791 DIPRO



SAMPLE INFORMATION

Sample Number	VCP445989	VCP431416	VCP385482	VCP374052
Sample Date	14 Feb 2024	11 Dec 2023	23 Sep 2022	16 May 2022
Machine Hours	2681	2093	1098	513
Oil Hours	581	500	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.3	▲ 12.2	■ 12.7	■ 12.8
Base Number (BN)	mg KOH/g	■ 9.5	■ 10.0	■ 10.8	■ 11.3
Oxidation (PA)	%	60	74	63	79

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.2	■ 0.3	■ 0.4	■ 0.2
Nitration (PA)	%	57	62	72	51
Sulfation (PA)	%	52	58	57	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	■ 0.5	<1.0	<1.0
Silicon	ppm	■ 2	■ 4	■ 5	■ 12
Sodium	ppm	■ 2	■ 2	■ 1	■ 2
Potassium	ppm	■ 0	■ 2	■ 0	■ 0



WEAR METALS

Iron	ppm	■ 8	■ 15	■ 10	■ 8
Copper	ppm	■ 3	■ <1	■ <1	■ 4
Lead	ppm	■ 0	■ 0	■ 0	■ <1
Tin	ppm	■ <1	■ <1	■ 0	■ <1
Aluminum	ppm	■ 2	■ 3	■ 0	■ 1
Chromium	ppm	■ <1	■ <1	■ 0	■ <1
Molybdenum	ppm	■ 56	■ 48	■ 60	■ 45
Nickel	ppm	■ <1	■ 2	■ 0	■ <1
Titanium	ppm	0	0	0	<1
Silver	ppm	■ 0	■ <1	0	2
Manganese	ppm	■ <1	■ <1	■ 0	■ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 1148	■ 1511	■ 1129	■ 1674
Magnesium	ppm	■ 833	■ 602	■ 940	■ 583
Zinc	ppm	■ 1027	■ 1150	■ 1272	■ 1103
Phosphorus	ppm	■ 974	■ 1000	■ 1098	■ 982
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 6	■ 46	■ 0	■ 59

Depot: VOLVO2990
Unique No: 10896459
Signed: Don Baldrige
Report Date: 26 Feb 2024



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GRAPHS

