



CONSTRUCTION EQUIPMENT

645894 DIPRO VOLVO A30G 752362 - DIESEL ENGINE



Sample No: VCP431416
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 645894 DIPRO



SAMPLE INFORMATION

Sample Number	VCP431416	VCP385482	VCP374052	---
Sample Date	11 Dec 2023	23 Sep 2022	16 May 2022	---
Machine Hours	2093	1098	513	---
Oil Hours	500	0	500	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ATTENTION	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.2	■ 12.7	■ 12.8	---
Base Number (BN)	mg KOH/g	■ 10.0	■ 10.8	■ 11.3	---
Oxidation (PA)	%	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. Fuel content negligible. 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	---
Soot %	%	■ 0.3	■ 0.4	■ 0.2	---
Nitration (PA)	%	62	72	51	---
Sulfation (PA)	%	58	57	62	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	■ 0.5	<1.0	<1.0	---
Silicon	ppm	■ 4	■ 5	■ 12	---
Sodium	ppm	■ 2	■ 1	■ 2	---
Potassium	ppm	■ 2	■ 0	■ 0	---



WEAR METALS

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



ADDITIVES

Calcium	ppm	■ 1511	■ 1129	■ 1674	---
Magnesium	ppm	■ 602	■ 940	■ 583	---
Zinc	ppm	■ 1150	■ 1272	■ 1103	---
Phosphorus	ppm	■ 1000	■ 1098	■ 982	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	■ 46	■ 0	■ 59	---

Depot: VOLVO2990
Unique No: 10794192
Signed: Sean Felton
Report Date: 22 Dec 2023



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GRAPHS

