



CONSTRUCTION EQUIPMENT

645288 DIPRO VOLVO A40G 353052 - DIESEL ENGINE



Sample No: VCP433729
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 645288 DIPRO



SAMPLE INFORMATION

Sample Number	VCP433729	VCP431701	VCP416916	VCP414168
Sample Date	18 Dec 2023	25 Oct 2023	31 Aug 2023	11 Jul 2023
Machine Hours	7110	6429	5749	5162
Oil Hours	0	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.3	■ 12.5	■ 13.1	■ 13.5
Base Number (BN)	mg KOH/g	■ 9.1	■ 9.3	■ 9.1	■ 8.9
Oxidation (PA)	%	61	60	57	57

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. 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	NEG
Soot %	%	■ 0.2	■ 0.2	■ 0.1	■ 0.1
Nitration (PA)	%	64	59	54	52
Sulfation (PA)	%	52	52	52	51
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	■ 0.2	<1.0	<1.0	<1.0
Silicon	ppm	■ 3	■ 2	■ 3	■ 3
Sodium	ppm	■ 2	■ 2	■ 1	■ <1
Potassium	ppm	■ 1	■ 2	■ 0	■ <1



WEAR METALS

Iron	ppm	■ 5	■ 3	■ 5	■ 5
Copper	ppm	■ <1	■ <1	■ <1	■ 1
Lead	ppm	■ 0	■ <1	■ 0	■ <1
Tin	ppm	■ <1	■ 0	■ 0	■ <1
Aluminum	ppm	■ <1	■ 1	■ 6	■ <1
Chromium	ppm	■ 0	■ 0	■ <1	■ <1
Molybdenum	ppm	■ 60	■ 57	■ 59	■ 55
Nickel	ppm	■ <1	■ 0	■ 0	■ 0
Titanium	ppm	0	0	0	0
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	■ 1063	■ 1063	■ 1077	■ 1024
Magnesium	ppm	■ 997	■ 996	■ 1022	■ 947
Zinc	ppm	■ 1300	■ 1131	■ 1328	■ 1252
Phosphorus	ppm	■ 1093	■ 1050	■ 1082	■ 1019
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 2	■ 0	■ 0	■ 1

Depot: VOLVO2990
Unique No: 10822398
Signed: Don Baldrige
Report Date: 14 Jan 2024

VOLVO **GRAPHS**

