



CONSTRUCTION EQUIPMENT

701666 VOLVO A35G 340108 - DIESEL ENGINE



Sample No: VCP445528
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 701666



SAMPLE INFORMATION

Sample Number	VCP445528	VCP431524	VCP410700	VCP396226
Sample Date	23 Apr 2024	12 Oct 2023	19 Apr 2023	03 Nov 2022
Machine Hours	9761	9313	8835	8376
Oil Hours	500	500	0	500
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	ATTENTION	NORMAL	NORMAL	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	11.6	12.9	12.6	12.0
Base Number (BN)	mg KOH/g	9.9	8.9	8.3	10.8
Oxidation (PA)	%	56	54	52	60

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. The condition of the oil is acceptable for the time in service.

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	56	49	50	58
Sulfation (PA)	%	50	49	45	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.5	<1.0	<1.0	<1.0
Silicon	ppm	3	4	3	2
Sodium	ppm	<1	1	1	0
Potassium	ppm	<1	0	<1	2

WEAR METALS

Iron	ppm	3	4	3	3
Copper	ppm	0	1	<1	<1
Lead	ppm	0	0	0	<1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	1	<1	<1	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	58	54	57	61
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	0
Vanadium	ppm	0	0	<1	0

ADDITIVES

Calcium	ppm	1027	943	1159	1068
Magnesium	ppm	932	816	958	915
Zinc	ppm	1221	1041	1257	1263
Phosphorus	ppm	1042	878	1044	1049
Barium	ppm	0	0	0	0
Boron	ppm	4	0	8	1

Depot: BLADET
Unique No: 11007257
Signed: Jonathan Hester
Report Date: 07 May 2024



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GRAPHS

