



CONSTRUCTION EQUIPMENT

SWO-072452 VOLVO A30G 752677 - DIESEL ENGINE



Sample No: VCP440066
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-072452



SAMPLE INFORMATION

Sample Number	VCP440066	VCP438625	VCP435998	VCP433844
Sample Date	05 Jun 2024	07 Mar 2024	16 Nov 2023	18 Sep 2023
Machine Hours	3335	2839	2403	1919
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.4	12.2	12.2	12.5
Base Number (BN)	mg KOH/g	9.3	9.9	9.9	9.8
Oxidation (PA)	%	75	76	77	76

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.3
Nitration (PA)	%	58	54	53	53
Sulfation (PA)	%	58	58	60	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.5	<1.0
Silicon	ppm	4	4	4	5
Sodium	ppm	0	2	2	2
Potassium	ppm	2	0	0	<1

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.

WEAR METALS

Iron	ppm	6	6	5	8
Copper	ppm	2	3	2	8
Lead	ppm	0	0	0	0
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	2	2	<1	<1
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	55	44	43	42
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0

ADDITIVES

Calcium	ppm	1566	1545	1619	1840
Magnesium	ppm	519	520	531	532
Zinc	ppm	868	871	956	1161
Phosphorus	ppm	702	760	824	951
Barium	ppm	0	0	0	0
Boron	ppm	63	56	54	49

Depot: SAIBIR
Unique No: 11073559
Signed: Sean Felton
Report Date: 13 Jun 2024



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GRAPHS

