



CONSTRUCTION EQUIPMENT

6003 VOLVO A25D 72011 - DIESEL ENGINE



Sample No: VCP382946
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 6003



SAMPLE INFORMATION

Sample Number	VCP382946	VCP384909	VCP401650	VCP384163
Sample Date	22 May 2024	20 Oct 2023	15 Jun 2023	24 Jan 2023
Machine Hours	13835	13335	12895	12410
Oil Hours	0	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	12.0	12.0	12.3	12.4
Base Number (BN)	mg KOH/g	9.8	10.1	9.5	10.0
Oxidation (PA)	%	78	80	85	78

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.

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.6	0.6	0.6
Nitration (PA)	%	57	58	58	61
Sulfation (PA)	%	60	63	64	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	5	9
Sodium	ppm	1	0	2	1
Potassium	ppm	1	1	0	2

WEAR METALS

Iron	ppm	2	7	7	11
Copper	ppm	0	<1	<1	<1
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	1	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	40	43	41	51
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1631	1611	1759	1775
Magnesium	ppm	500	480	544	608
Zinc	ppm	1172	1094	1236	1265
Phosphorus	ppm	913	951	971	1074
Barium	ppm	0	4	0	0
Boron	ppm	52	49	50	51

Depot: LEOMAD
Unique No: 11098979
Signed: Angela Borella
Report Date: 27 Jun 2024



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GRAPHS

