



CONSTRUCTION EQUIPMENT

2009 VOLVO L120G 30761 - DIESEL ENGINE



Sample No: VCP434266
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 2009



SAMPLE INFORMATION

Sample Number	VCP434266	VCP383177	VCP382927	VCP396722
Sample Date	24 Apr 2024	03 Nov 2023	13 Jun 2023	29 Mar 2023
Machine Hours	13470	13055	12575	12165
Oil Hours	0	0	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	13.3	13.6	13.9
Base Number (BN)	mg KOH/g	10.5	11.0	10.4	10.8
Oxidation (PA)	%	84	86	92	89

Diagnosis

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.7	0.7	0.8	1.2
Nitration (PA)	%	68	70	71	88
Sulfation (PA)	%	65	65	67	69
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	5	5
Sodium	ppm	<1	<1	2	3
Potassium	ppm	0	0	<1	1

WEAR METALS

Iron	ppm	13	12	16	20
Copper	ppm	0	<1	1	2
Lead	ppm	0	0	0	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	4	4	4	▲ 15
Chromium	ppm	<1	<1	1	2
Molybdenum	ppm	40	43	42	38
Nickel	ppm	0	<1	<1	1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1748	1756	1854	1711
Magnesium	ppm	512	559	561	451
Zinc	ppm	1132	1238	1297	1113
Phosphorus	ppm	973	1030	1028	931
Barium	ppm	0	0	0	0
Boron	ppm	40	34	36	38

Depot: LEOMAD
Unique No: 11007265
Signed: Wes Davis
Report Date: 03 May 2024



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VOLVO GRAPHS

