



CONSTRUCTION EQUIPMENT

VOLVO L120H 632185 - DIESEL ENGINE



Sample No: VCP401647
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP401647	VCP406170	VCP374955	VCP341664
Sample Date	25 Aug 2023	09 May 2023	08 Dec 2022	01 Aug 2022
Machine Hours	8610	8100	7600	7100
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.3	13.6	13.7
Base Number (BN)	mg KOH/g	10.9	10.8	12.2	11.8
Oxidation (PA)	%	82	84	86	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

Soot %	%	0.2	0.2	0.4	0.6
Nitration (PA)	%	55	57	62	69
Sulfation (PA)	%	61	63	66	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	3	3	7
Sodium	ppm	3	<1	0	3
Potassium	ppm	<1	1	<1	<1



WEAR METALS

Iron	ppm	6	6	8	9
Copper	ppm	1	<1	1	2
Lead	ppm	0	<1	<1	1
Tin	ppm	<1	<1	<1	2
Aluminum	ppm	3	2	5	5
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	41	43	43	38
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1792	1771	1803	1529
Magnesium	ppm	560	498	476	491
Zinc	ppm	1232	1153	1103	1054
Phosphorus	ppm	1005	964	928	865
Barium	ppm	0	0	0	0
Boron	ppm	51	50	48	35

Depot: LEOMAD
Unique No: 10632454
Signed: Wes Davis
Report Date: 06 Sep 2023



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GRAPHS

