



CONSTRUCTION EQUIPMENT

38078 VOLVO L120H 632541 - DIESEL ENGINE



Sample No: VCP391556
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 38078



SAMPLE INFORMATION

Sample Number	VCP391556	LH394707	VCP394593	VCP381816
Sample Date	08 Sep 2023	11 Aug 2023	30 Jun 2023	10 May 2023
Machine Hours	12747	12233	11551	10842
Oil Hours	500	500	500	400
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	13.5	13.4
Oxidation (PA)	%	83	76	87	80



CONTAMINATION

Soot %	%	0.5	0.5	0.6	0.2
Nitration (PA)	%	58	59	63	49
Sulfation (PA)	%	65	64	66	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	5	4
Sodium	ppm	2	3	3	2
Potassium	ppm	0	1	0	0

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



WEAR METALS

Iron	ppm	8	9	11	6
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	<1	0	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	6	6	7	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	41	41	41	39
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1686	1700	1740	1740
Magnesium	ppm	513	517	521	487
Zinc	ppm	1101	1095	1104	1057
Phosphorus	ppm	1016	984	979	996
Barium	ppm	0	0	0	0
Boron	ppm	32	29	31	48

Depot: VOLVO9652
Unique No: 5642784
Signed: Wes Davis
Report Date: 12 Sep 2023



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GRAPHS

