



CONSTRUCTION EQUIPMENT

19788 VOLVO L120F 66461 - DIESEL ENGINE



Sample No: VCP423969
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 19788



SAMPLE INFORMATION

Sample Number	VCP423969	VCP382754	VCP245676	VCP195624
Sample Date	27 Oct 2023	20 Mar 2023	26 Feb 2020	14 Dec 2016
Machine Hours	26649	26080	14856	8677
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.9	14.4	14.0	14.44
Base Number (BN)	mg KOH/g	10.0	7.9	---	---
Oxidation (PA)	%	83	78	68	68

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 %	%	0.3	0.6	0.3	0.6
Nitration (PA)	%	67	82	73	75
Sulfation (PA)	%	64	65	58	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	8	8	10
Sodium	ppm	2	2	4	16
Potassium	ppm	0	1	5	2



WEAR METALS

Iron	ppm	8	17	11	17
Copper	ppm	7	▲ 40	2	▲ 263
Lead	ppm	<1	3	0	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	1	2	2	3
Chromium	ppm	<1	2	2	1
Molybdenum	ppm	48	58	21	25
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	1	8	15	59
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1658	1298	1518	1910
Magnesium	ppm	679	866	687	566
Zinc	ppm	1311	1291	913	1188
Phosphorus	ppm	941	1016	768	1010
Barium	ppm	0	0	0	<1
Boron	ppm	27	7	65	34

Depot: HILGREVC
Unique No: 10755206
Signed: Wes Davis
Report Date: 27 Nov 2023



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VOLVO GRAPHS

