



CONSTRUCTION EQUIPMENT

SPM688398 WM ELGIN VOLVO L150H 7136 - DIESEL ENGINE



Sample No: VCP304655
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM688398 WM ELGIN



SAMPLE INFORMATION

Sample Number	VCP304655	VCP401411	VCP420061	VCP396416
Sample Date	21 Mar 2024	10 Nov 2023	25 Apr 2023	16 Feb 2023
Machine Hours	2181	1725	750	462
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.2	14.2	14.0	11.4
Base Number (BN)	mg KOH/g	9.5	8.9	7.9	6.8
Oxidation (PA)	%	57	54	53	59

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 %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	50	46	48	73
Sulfation (PA)	%	50	50	47	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	2	5	16
Sodium	ppm	2	0	<1	0
Potassium	ppm	2	2	1	4



WEAR METALS

Iron	ppm	2	2	3	7
Copper	ppm	3	16	26	159
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	0	2
Aluminum	ppm	<1	2	<1	2
Chromium	ppm	0	0	0	0
Molybdenum	ppm	55	59	62	82
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	2
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1067	1002	1201	2002
Magnesium	ppm	985	866	967	148
Zinc	ppm	1314	1129	1359	1114
Phosphorus	ppm	926	967	1072	989
Barium	ppm	0	0	0	0
Boron	ppm	0	0	8	50

Depot: VOLVO8885
Unique No: 10949731
Signed: Wes Davis
Report Date: 27 Mar 2024



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GRAPHS

