



CONSTRUCTION EQUIPMENT

SPM634506 WM VOLVO L150H 7136 - DIESEL ENGINE



Sample No: VCP401411
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM634506 WM



SAMPLE INFORMATION

Sample Number	VCP401411	VCP420061	VCP396416	VCP404053
Sample Date	10 Nov 2023	25 Apr 2023	16 Feb 2023	09 Jan 2023
Machine Hours	1725	750	462	227
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	14.2	14.0	▲ 11.4	▲ 11.2
Base Number (BN)	mg KOH/g	8.9	7.9	6.8	7.3
Oxidation (PA)	%	54	53	59	55

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	46	48	73	69
Sulfation (PA)	%	50	47	53	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.4
Silicon	ppm	2	5	16	17
Sodium	ppm	0	<1	0	0
Potassium	ppm	2	1	4	0

WEAR METALS

Iron	ppm	2	3	7	4
Copper	ppm	16	26	▲ 159	▲ 68
Lead	ppm	0	0	<1	<1
Tin	ppm	0	0	2	<1
Aluminum	ppm	2	<1	2	1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	59	62	82	81
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	2	2
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1002	1201	2002	2048
Magnesium	ppm	866	967	148	23
Zinc	ppm	1129	1359	1114	1068
Phosphorus	ppm	967	1072	989	913
Barium	ppm	0	0	0	0
Boron	ppm	0	8	50	71

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.

Depot: VOLVO8885
Unique No: 10766828
Signed: Wes Davis
Report Date: 01 Dec 2023



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GRAPHS

