



CONSTRUCTION EQUIPMENT

SPM634514 WM VOLVO L150H 7152 - DIESEL ENGINE



Sample No: VCP401404
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM634514 WM



SAMPLE INFORMATION

Sample Number	VCP401404	VCP425436	VCP420187	VCP409351
Sample Date	10 Nov 2023	12 Sep 2023	26 Jul 2023	05 Jul 2023
Machine Hours	2294	1861	1575	1396
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	14.3	13.6	13.7
Base Number (BN)	mg KOH/g	9.5	9.2	8.7	9.7
Oxidation (PA)	%	54	53	55	57

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0.2	0.2
Nitration (PA)	%	44	45	54	54
Sulfation (PA)	%	49	49	50	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	2	4	6	5
Sodium	ppm	0	2	1	<1
Potassium	ppm	2	2	2	<1

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.

WEAR METALS

Iron	ppm	2	4	5	5
Copper	ppm	1	<1	5	6
Lead	ppm	0	0	<1	<1
Tin	ppm	0	<1	1	<1
Aluminum	ppm	2	0	2	<1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	59	58	60	59
Nickel	ppm	0	<1	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1039	1047	1060	1092
Magnesium	ppm	904	971	978	1013
Zinc	ppm	1156	1262	1314	1350
Phosphorus	ppm	989	1049	1074	1084
Barium	ppm	0	0	0	0
Boron	ppm	0	<1	1	2

Depot: VOLVO8885
Unique No: 10766815
Signed: Wes Davis
Report Date: 01 Dec 2023



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GRAPHS

