



CONSTRUCTION EQUIPMENT

SPM620300 VOLVO L150H 6952 - DIESEL ENGINE



Sample No: VCP415344
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM620300



SAMPLE INFORMATION

Sample Number	VCP415344	VCP413049	VCP420671	VCP422176
Sample Date	12 Oct 2023	25 Aug 2023	19 Jul 2023	01 Jun 2023
Machine Hours	11878	11277	10311	10051
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

SIMS METAL MANAGEMENT

2500 S. PAULINA
 CHICAGO, IL
 US 60608
 Contact: RYAN WISE
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	14.9	14.1	13.7	14.1
Base Number (BN)	mg KOH/g	8.1	9.3	9.0	8.9
Oxidation (PA)	%	48	56	59	61

CONTAMINATION

Soot %	%	0.1	0.2	0.1	0.2
Nitration (PA)	%	49	53	58	51
Sulfation (PA)	%	48	52	52	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	2	1	4
Sodium	ppm	3	<1	0	1
Potassium	ppm	3	1	2	2

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. All other 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 acceptable for the time in service.

WEAR METALS

Iron	ppm	23	3	2	3
Copper	ppm	▲ 67	<1	2	<1
Lead	ppm	<1	0	<1	0
Tin	ppm	2	<1	<1	<1
Aluminum	ppm	2	0	0	2
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	45	54	63	59
Nickel	ppm	<1	0	<1	1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	0	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	835	980	1079	1022
Magnesium	ppm	745	949	936	958
Zinc	ppm	1007	1164	1254	1299
Phosphorus	ppm	873	964	1048	1041
Barium	ppm	0	2	2	0
Boron	ppm	0	0	0	0

Depot: SIMCHIL
Unique No: 10712789
Signed: Jonathan Hester
Report Date: 31 Oct 2023



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GRAPHS

