



CONSTRUCTION EQUIPMENT

SPM581088 VOLVO L150H 7135 - DIESEL ENGINE



Sample No: VCP420664
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM581088



SAMPLE INFORMATION

Sample Number	VCP420664	VCP422997	VCP420066	VCP387159
Sample Date	25 Aug 2023	25 Aug 2023	24 Apr 2023	22 Feb 2023
Machine Hours	995	4044	562	276
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	ABNORMAL	NORMAL	ABNORMAL	ATTENTION

WASTE MANAGEMENT - GARY
 1508 SHERMAN ST
 GARY, IN
 US 46406
 Contact: TARA RORK

OIL CONDITION

Visc @ 100°C	cSt	13.3	13.6	11.2	11.1
Base Number (BN)	mg KOH/g	6.9	9.8	5.0	10.0
Oxidation (PA)	%	61	56	61	53

T:
F:

CONTAMINATION

Soot %	%	0.2	0.1	0.1	0.1
Nitration (PA)	%	68	53	73	48
Sulfation (PA)	%	57	51	52	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.5
Silicon	ppm	13	3	21	2
Sodium	ppm	3	2	2	0
Potassium	ppm	2	<1	3	1

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. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). 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	7	3	8	7
Copper	ppm	105	2	221	29
Lead	ppm	0	0	<1	<1
Tin	ppm	2	<1	2	<1
Aluminum	ppm	2	<1	2	2
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	69	63	76	47
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	1	<1	3	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1512	1107	1968	1348
Magnesium	ppm	729	1047	40	588
Zinc	ppm	1350	1366	1166	1065
Phosphorus	ppm	1059	1105	909	935
Barium	ppm	0	0	0	0
Boron	ppm	11	3	45	23

Depot: WASGARIN
Unique No: 10632431
Signed: Sean Felton
Report Date: 06 Sep 2023



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GRAPHS

