



CONSTRUCTION EQUIPMENT

SPM540407 VOLVO L150H 7135 - DIESEL ENGINE



Sample No: VCP420066
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM540407



SAMPLE INFORMATION

Sample Number	VCP420066	VCP387159	---	---
Sample Date	24 Apr 2023	22 Feb 2023	---	---
Machine Hours	562	276	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Not Chngd	---	---
Sample Status	ABNORMAL	ATTENTION	---	---

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

OIL CONDITION

Visc @ 100°C	cSt	▲ 11.2	▲ 11.1	---	---
Base Number (BN)	mg KOH/g	■ 5.0	■ 10.0	---	---
Oxidation (PA)	%	■ 61	■ 53	---	---

T:
F:

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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

CONTAMINATION

Soot %	%	■ 0.1	■ 0.1	---	---
Nitration (PA)	%	■ 73	■ 48	---	---
Sulfation (PA)	%	■ 52	■ 50	---	---
Glycol	%	■ NEG	■ NEG	---	---
Fuel	%	■ <1.0	■ 0.5	---	---
Silicon	ppm	■ 21	■ 2	---	---
Sodium	ppm	■ 2	■ 0	---	---
Potassium	ppm	■ 3	■ 1	---	---

WEAR METALS

Iron	ppm	■ 8	■ 7	---	---
Copper	ppm	▲ 221	■ 29	---	---
Lead	ppm	■ <1	■ <1	---	---
Tin	ppm	■ 2	■ <1	---	---
Aluminum	ppm	■ 2	■ 2	---	---
Chromium	ppm	■ 0	■ 0	---	---
Molybdenum	ppm	■ 76	■ 47	---	---
Nickel	ppm	■ 0	■ 0	---	---
Titanium	ppm	■ 0	■ <1	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ 3	■ <1	---	---
Vanadium	ppm	■ 0	■ 0	---	---

ADDITIVES

Calcium	ppm	■ 1968	■ 1348	---	---
Magnesium	ppm	■ 40	■ 588	---	---
Zinc	ppm	■ 1166	■ 1065	---	---
Phosphorus	ppm	■ 909	■ 935	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 45	■ 23	---	---

Depot: WASGARIN
Unique No: 10457749
Signed: Don Baldrige
Report Date: 09 May 2023



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GRAPHS

