



CONSTRUCTION EQUIPMENT

136102 VOLVO L220H 3548 - DIESEL ENGINE



Sample No: VCP442488

Oil Type: {unknown}

Job No: 136102



SAMPLE INFORMATION

Sample Number	VCP442488	VCP440001	VCP434230	---
Sample Date	17 Apr 2024	04 Mar 2024	12 Dec 2023	---
Machine Hours	1464	1125	496	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Changed	Not Chngd	---
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	---

LATTIMORE MATERIALS/HOLCIM - ROSSER - LAFARGE
14242 S SH-34
SCURRY, TX
US 75158
Contact: WALLACE WARREN
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T:
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OIL CONDITION

Visc @ 100°C	cSt	12.9	11.2	11.2	---
Base Number (BN)	mg KOH/g	8.1	3.9	6.0	---
Oxidation (PA)	%	65	79	63	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.2	0.1	---
Nitration (PA)	%	60	90	78	---
Sulfation (PA)	%	62	66	54	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	0.5	---
Silicon	ppm	7	20	25	---
Sodium	ppm	2	3	3	---
Potassium	ppm	<1	4	4	---



WEAR METALS

Iron	ppm	4	10	9	---
Copper	ppm	▲ 39	▲ 227	▲ 300	---
Lead	ppm	<1	5	1	---
Tin	ppm	<1	2	2	---
Aluminum	ppm	2	2	3	---
Chromium	ppm	0	<1	0	---
Molybdenum	ppm	95	76	82	---
Nickel	ppm	0	<1	<1	---
Titanium	ppm	3	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	2	3	---
Vanadium	ppm	<1	<1	0	---



ADDITIVES

Calcium	ppm	1538	2166	2169	---
Magnesium	ppm	543	151	21	---
Zinc	ppm	791	1178	1250	---
Phosphorus	ppm	694	949	1014	---
Barium	ppm	0	0	0	---
Boron	ppm	239	8	41	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. The copper level has decreased, but is still 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 suitable for further service.

Depot: LATSCU
Unique No: 10990957
Signed: Sean Felton
Report Date: 24 Apr 2024



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GRAPHS

