



CONSTRUCTION EQUIPMENT

REGION OF PEEL 8-395949 VOLVO L60H 622787 - DIESEL ENGINE



Sample No: VCP394108
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: 8-395949



SAMPLE INFORMATION

Sample Number	VCP394108	VCP380461	VCP353328	---
Sample Date	22 Feb 2024	20 Jul 2023	06 Dec 2022	---
Machine Hours	2999	2028	1024	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.3	12.8	---
Oxidation (PA)	%	95	90	90	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.7	0.5	0.6	---
Nitration (PA)	%	80	77	86	---
Sulfation (PA)	%	66	66	68	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	9	9	18	---
Sodium	ppm	2	3	4	---
Potassium	ppm	17	0	2	---

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

WEAR METALS

Iron	ppm	▲ 104	▲ 121	▲ 282	---
Copper	ppm	2	3	11	---
Lead	ppm	<1	<1	2	---
Tin	ppm	1	1	3	---
Aluminum	ppm	7	4	8	---
Chromium	ppm	2	3	9	---
Molybdenum	ppm	40	41	38	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	1	2	8	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1761	1717	1658	---
Magnesium	ppm	509	535	606	---
Zinc	ppm	1100	1103	1100	---
Phosphorus	ppm	949	984	992	---
Barium	ppm	<1	<1	4	---
Boron	ppm	23	27	27	---

Depot: SHEMIS
Unique No: 5746513
Signed: Kevin Marson
Report Date: 13 Mar 2024



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GRAPHS

