



CONSTRUCTION EQUIPMENT

LAFARGE 386095 VOLVO L220H 386095 - DIESEL ENGINE



Sample No: VCP333949
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 386095



SAMPLE INFORMATION

Sample Number	VCP333949	---	---	---
Sample Date	21 Nov 2023	---	---	---
Machine Hours	3889	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---

STRONGCO EQUIPMENT--CALGARY
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OIL CONDITION

Visc @ 100°C	cSt	█ 12.7	---	---	---
Oxidation (PA)	%	█ 82	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	█ 51	---	---	---
Sulfation (PA)	%	█ 65	---	---	---
Glycol	%	█ 0.0	---	---	---
Fuel	%	█ 0.9	---	---	---
Silicon	ppm	● 95	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 5	---	---	---

WEAR METALS

Iron	ppm	▲ 156	---	---	---
Copper	ppm	█ 36	---	---	---
Lead	ppm	▲ 32	---	---	---
Tin	ppm	● 31	---	---	---
Aluminum	ppm	▲ 32	---	---	---
Chromium	ppm	█ 3	---	---	---
Molybdenum	ppm	█ 39	---	---	---
Nickel	ppm	█ 5	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ 3	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1783	---	---	---
Magnesium	ppm	█ 513	---	---	---
Zinc	ppm	█ 1039	---	---	---
Phosphorus	ppm	█ 888	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 43	---	---	---

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We advise that you monitor for an abnormal oil pressure drop and noise. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Tin ppm levels are severe. PQ levels are abnormal. Iron and lead ppm levels are abnormal. Aluminum ppm levels are noted. Cylinder, crank, or cam shaft wear is indicated. Bearing wear is indicated. Slide bearing wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring. Fuel content negligible. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: VOLVO3909
Unique No: 5683198
Signed: Kevin Marson
Report Date: 24 Nov 2023

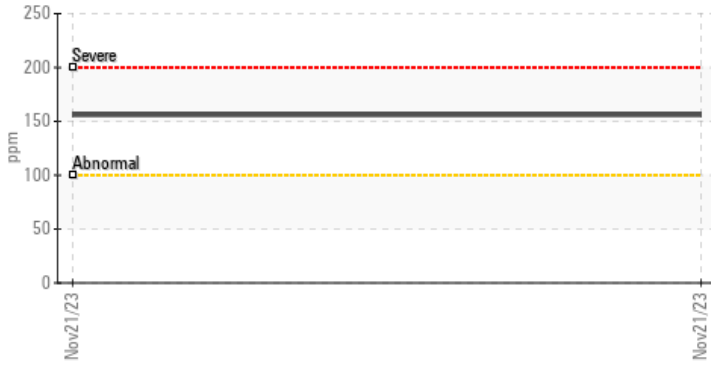


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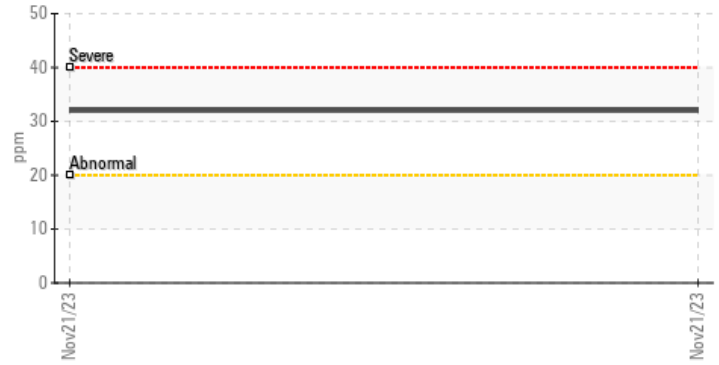


GRAPHS

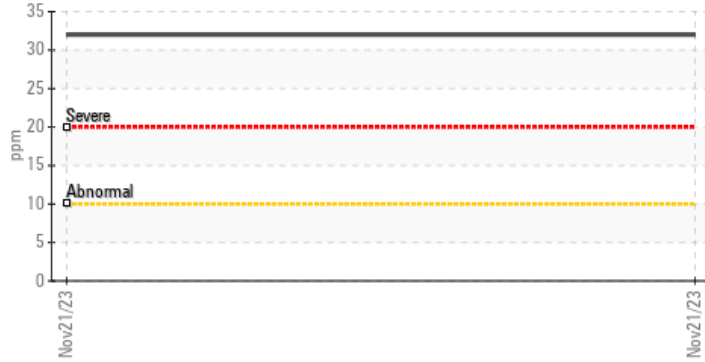
▲ Iron (ppm)



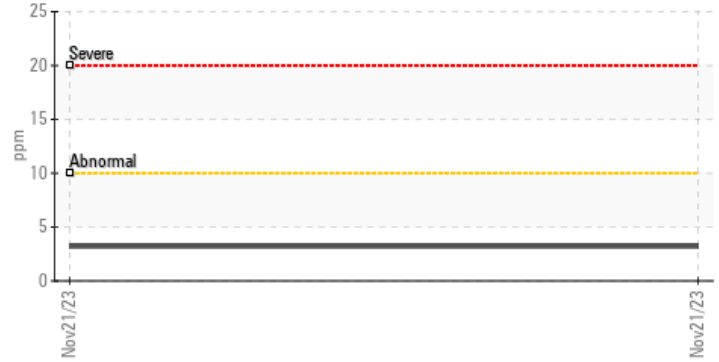
▲ Lead (ppm)



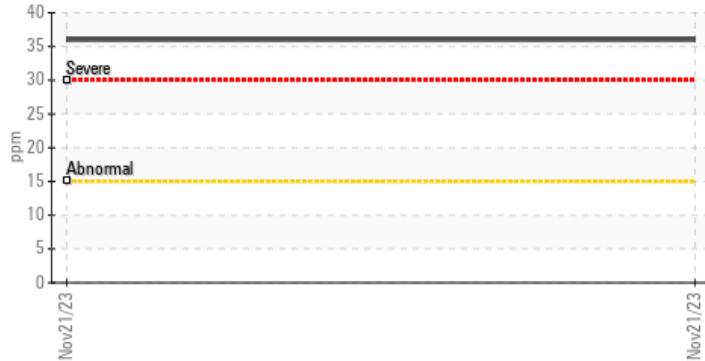
▲ Aluminum (ppm)



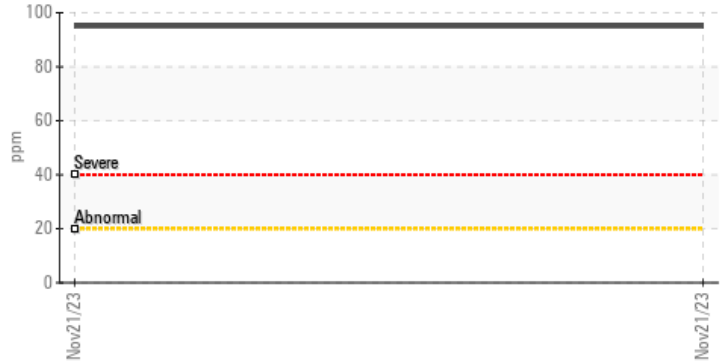
Chromium (ppm)



Copper (ppm)



◆ Silicon (ppm)



Viscosity @ 100°C



▲ PQ

