



CONSTRUCTION EQUIPMENT

IMPACT AUTO 397549 VOLVO L90H 627901 - DIESEL ENGINE



Sample No: VCP393054
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 397549



SAMPLE INFORMATION

Sample Number	VCP393054	---	---	---
Sample Date	06 Mar 2024	---	---	---
Machine Hours	469	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

STRONGCO EQUIPMENT (CE)

1051 Heritage Rd.
 Burlington, ON
 CA L7L 4Y1
 Contact: Sue Hooton
 shooton@strongco.com
 T: (905)331-3835
 F: (905)643-6077



OIL CONDITION

Visc @ 100°C	cSt	█ 12.7	---	---	---
Oxidation (PA)	%	73	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	53	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 16	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 19	---	---	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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 condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	█ 22	---	---	---
Copper	ppm	█ 8	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 6	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 37	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 5	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 1586	---	---	---
Magnesium	ppm	█ 576	---	---	---
Zinc	ppm	█ 1064	---	---	---
Phosphorus	ppm	█ 949	---	---	---
Barium	ppm	█ 4	---	---	---
Boron	ppm	█ 50	---	---	---

Depot: VOLVO0252
Unique No: 5746523
Signed: Wes Davis
Report Date: 12 Mar 2024

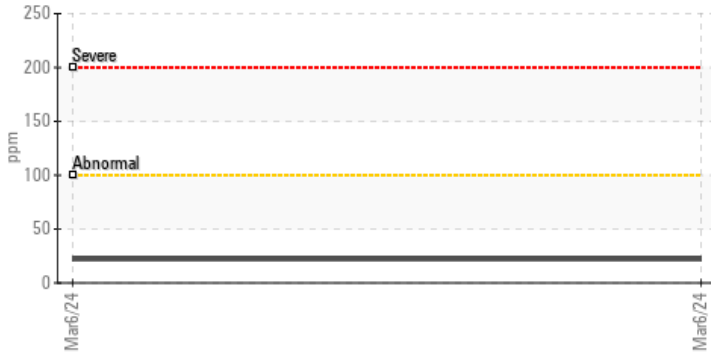


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GRAPHS

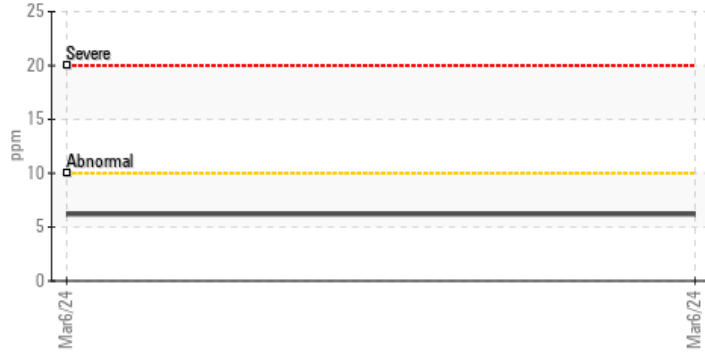
Iron (ppm)



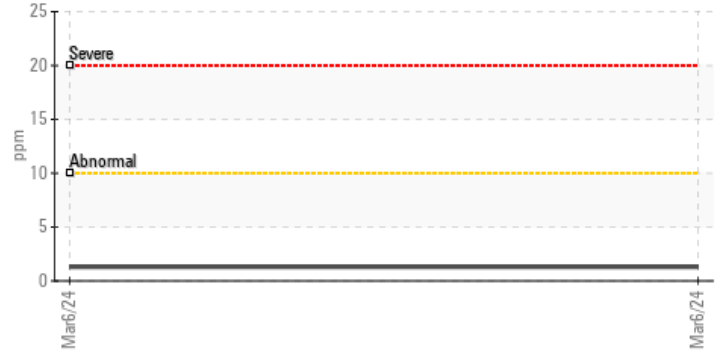
Lead (ppm)



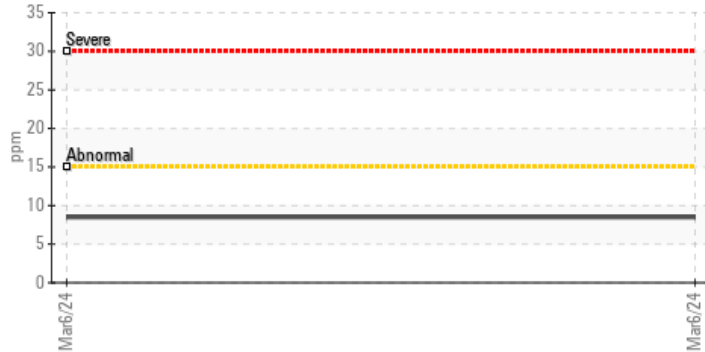
Aluminum (ppm)



Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

