



CONSTRUCTION EQUIPMENT

GORDRON AND GORDRON VOLVO EC350E 3 10732 - DIESEL ENGINE



Sample No: VCP409314
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: GORDRON AND GORDRON



SAMPLE INFORMATION

Sample Number	VCP409314	---	---	---
Sample Date	03 Nov 2023	---	---	---
Machine Hours	5000	---	---	---
Oil Hours	40	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---

CHADWICK-BAROSS INC MAIN
 PO BOX 4500
 WESTBROOK, ME
 US 04098
 Contact: BRENT MATCHETT
 matchett@chadwick-baross.com
 T:
 F: (207)856-2995



OIL CONDITION

Base Number (BN)	mg KOH/g	61.7	---	---	---
Oxidation (PA)	%	308	---	---	---



CONTAMINATION

Water	%	30.8	---	---	---
Soot %	%	1.2	---	---	---
Nitration (PA)	%	528	---	---	---
Sulfation (PA)	%	25	---	---	---
Glycol	%	0.12	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	18	---	---	---
Sodium	ppm	621	---	---	---
Potassium	ppm	749	---	---	---

Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. Please note that there was too much water present in the oil to perform a viscosity test. All component wear rates are normal. Sodium and/or potassium levels are high. Appearance is milky. There is a high concentration of glycol present in the oil. The oil is no longer serviceable due to the presence of contaminants.



WEAR METALS

Iron	ppm	15	---	---	---
Copper	ppm	3	---	---	---
Lead	ppm	1	---	---	---
Tin	ppm	6	---	---	---
Aluminum	ppm	3	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	163	---	---	---
Nickel	ppm	2	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	1318	---	---	---
Magnesium	ppm	305	---	---	---
Zinc	ppm	640	---	---	---
Phosphorus	ppm	782	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	456	---	---	---

Depot: VOLVO0006
Unique No: 10727214
Signed: Jonathan Hester
Report Date: 08 Nov 2023

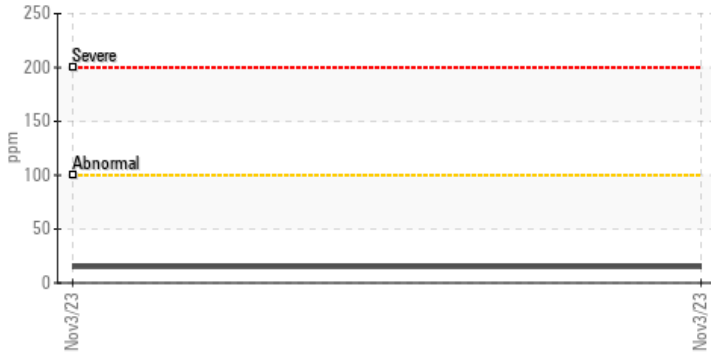


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GRAPHS

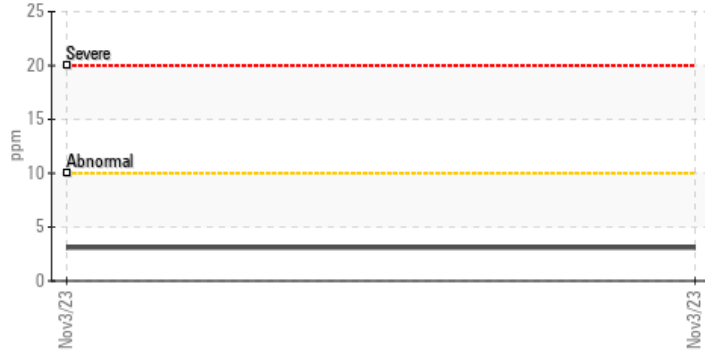
Iron (ppm)



Lead (ppm)



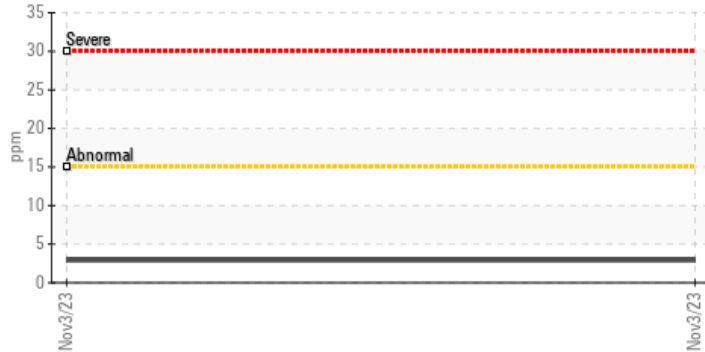
Aluminum (ppm)



Chromium (ppm)



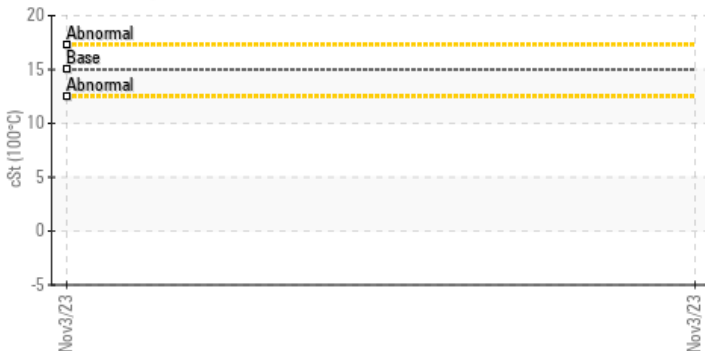
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

