



CONSTRUCTION EQUIPMENT

SWA-304265-10 TOEPE VOLVO EC950F 410101 - DIESEL ENGINE



Sample No: VCP398127
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA-304265-10 TOEPE



SAMPLE INFORMATION

Sample Number	VCP398127	---	---	---
Sample Date	07 Jul 2023	---	---	---
Machine Hours	172	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

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56195 PONTIAC TRAIL
NEW HUDSON, MI
US 48165
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OIL CONDITION

Visc @ 100°C	cSt	3.8	---	---	---
Base Number (BN)	mg KOH/g	6.2	---	---	---
Oxidation (PA)	%	46	---	---	---

Diagnosis

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



CONTAMINATION

Soot %	%	0.2	---	---	---
Nitration (PA)	%	77	---	---	---
Sulfation (PA)	%	47	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	40.8	---	---	---
Silicon	ppm	24	---	---	---
Sodium	ppm	2	---	---	---
Potassium	ppm	1	---	---	---



WEAR METALS

Iron	ppm	11	---	---	---
Copper	ppm	9	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	2	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	48	---	---	---
Nickel	ppm	2	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	1378	---	---	---
Magnesium	ppm	12	---	---	---
Zinc	ppm	701	---	---	---
Phosphorus	ppm	601	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	31	---	---	---

Depot: VOLVO2990
Unique No: 10551691
Signed: Doug Bogart
Report Date: 13 Jul 2023



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GRAPHS

Iron (ppm)



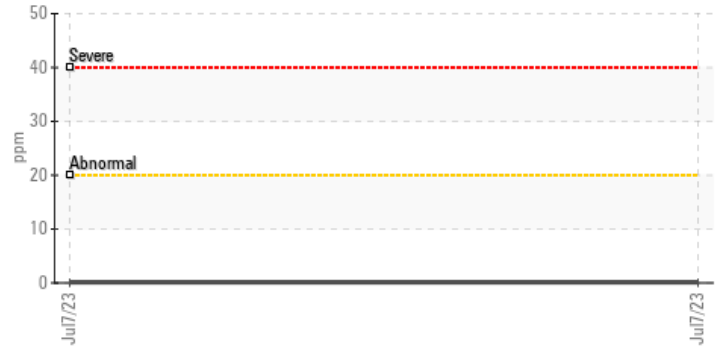
Lead (ppm)



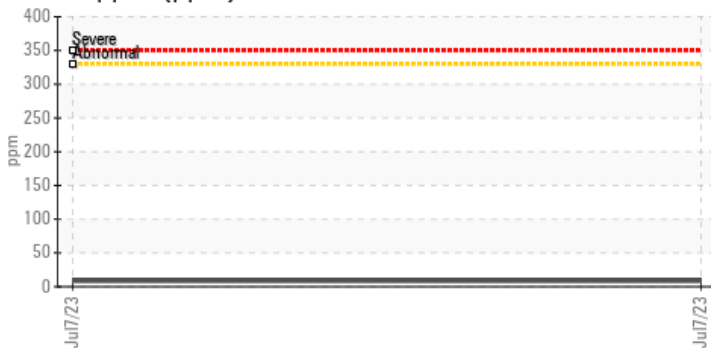
Aluminum (ppm)



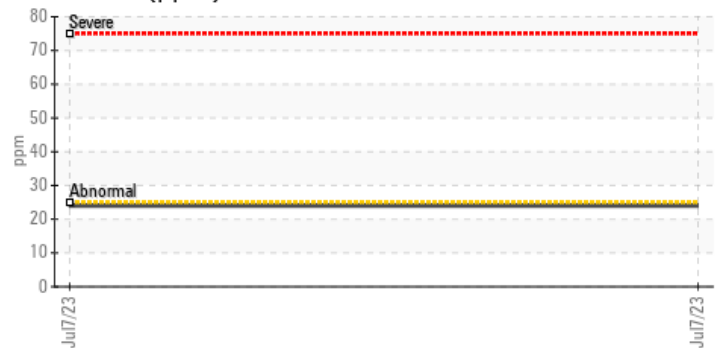
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

