



CONSTRUCTION EQUIPMENT

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



Sample No: VCP385001
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA-304265-10 TOEPE



SAMPLE INFORMATION

Sample Number	VCP385001	VCP398127	---	---
Sample Date	08 Jul 2023	07 Jul 2023	---	---
Machine Hours	172	172	---	---
Oil Hours	172	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	SEVERE	SEVERE	---	---

ALTA EQUIPMENT COMPANY - METRO WEST
56195 PONTIAC TRAIL
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OIL CONDITION

Visc @ 100°C	cSt	5.2	3.8	---	---
Base Number (BN)	mg KOH/g	6.3	6.2	---	---
Oxidation (PA)	%	46	46	---	---



CONTAMINATION

Soot %	%	0.2	0.2	---	---
Nitration (PA)	%	78	77	---	---
Sulfation (PA)	%	46	47	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	41.8	40.8	---	---
Silicon	ppm	23	24	---	---
Sodium	ppm	1	2	---	---
Potassium	ppm	1	1	---	---

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. NOTE: one of two samples received with same ID and sampling date. 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.



WEAR METALS

Iron	ppm	10	11	---	---
Copper	ppm	9	9	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	2	2	---	---
Aluminum	ppm	2	2	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	48	48	---	---
Nickel	ppm	2	2	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	1	1	---	---
Vanadium	ppm	<1	<1	---	---



ADDITIVES

Calcium	ppm	1371	1378	---	---
Magnesium	ppm	7	12	---	---
Zinc	ppm	696	701	---	---
Phosphorus	ppm	597	601	---	---
Barium	ppm	0	0	---	---
Boron	ppm	31	31	---	---

Depot: VOLVO2990
Unique No: 10551692
Signed: Doug Bogart
Report Date: 13 Jul 2023



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GRAPHS

