



CONSTRUCTION EQUIPMENT

DAY BY DAY 8-400458 VOLVO EC350E 314524 - DIESEL ENGINE



Sample No: VCP391838
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: 8-400458



STRONGCO EQUIPMENT INC.
1640 ENTERPRISE ROAD
MISSISSAUGA, ON
CA L4W 4L4
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SAMPLE INFORMATION

Sample Number	VCP391838	---	---	---
Sample Date	09 Apr 2024	---	---	---
Machine Hours	1020	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---



OIL CONDITION

Visc @ 100°C	cSt	10.1	---	---	---
Oxidation (PA)	%	84	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0	---	---	---
Nitration (PA)	%	91	---	---	---
Sulfation (PA)	%	70	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	0.8	---	---	---
Silicon	ppm	26	---	---	---
Sodium	ppm	4	---	---	---
Potassium	ppm	3	---	---	---



WEAR METALS

Iron	ppm	16	---	---	---
Copper	ppm	257	---	---	---
Lead	ppm	8	---	---	---
Tin	ppm	2	---	---	---
Aluminum	ppm	3	---	---	---
Chromium	ppm	0	---	---	---
Molybdenum	ppm	81	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	3	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	2140	---	---	---
Magnesium	ppm	91	---	---	---
Zinc	ppm	1159	---	---	---
Phosphorus	ppm	955	---	---	---
Barium	ppm	<1	---	---	---
Boron	ppm	15	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Fuel content negligible. 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. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot: SHEMIS
Unique No: 5760984
Signed: Kevin Marson
Report Date: 11 Apr 2024



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GRAPHS

