



CONSTRUCTION EQUIPMENT

X58459 VOLVO EC350EL 314368 - DIESEL ENGINE



Sample No: VCP406520

Oil Type: NOT GIVEN

Job No: X58459



SAMPLE INFORMATION

Sample Number	VCP406520	VCP367222	---	---
Sample Date	21 Aug 2023	28 Feb 2023	---	---
Machine Hours	1476	617	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

SCOTT EQUIPMENT COMPANY LLC - Saint Rose
 PO BOX 997
 SAINT ROSE, LA
 US 70087
 Contact: DENISE CORVERS
 dcorvers@scottcompanies.com
 T: (504)461-0961
 F: (504)461-0970



OIL CONDITION

Visc @ 100°C	cSt	11.9	9.9	---	---
Base Number (BN)	mg KOH/g	6.3	5.3	---	---
Oxidation (PA)	%	91	68	---	---



CONTAMINATION

Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	82	83	---	---
Sulfation (PA)	%	64	59	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	1.1	---	---
Silicon	ppm	10	27	---	---
Sodium	ppm	0	<1	---	---
Potassium	ppm	2	4	---	---



WEAR METALS

Iron	ppm	9	12	---	---
Copper	ppm	52	333	---	---
Lead	ppm	<1	1	---	---
Tin	ppm	1	3	---	---
Aluminum	ppm	0	4	---	---
Chromium	ppm	<1	0	---	---
Molybdenum	ppm	50	93	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	1	4	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	1872	2251	---	---
Magnesium	ppm	462	58	---	---
Zinc	ppm	1172	1214	---	---
Phosphorus	ppm	902	1020	---	---
Barium	ppm	2	0	---	---
Boron	ppm	9	21	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot: SCOSAI
Unique No: 10618338
Signed: Sean Felton
Report Date: 25 Aug 2023



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GRAPHS

