



CONSTRUCTION EQUIPMENT

X58196 VOLVO EC350EL 314462 - DIESEL ENGINE



Sample No: VCP425337

Oil Type: NOT GIVEN

Job No: X58196



SAMPLE INFORMATION

Sample Number	VCP425337	VCP384642	VPA042388	---
Sample Date	03 Jul 2023	28 Feb 2023	23 Feb 2023	---
Machine Hours	1169	482	1280	---
Oil Hours	0	0	35	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	ABNORMAL	NORMAL	---

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	12.1	10.6	12.7	---
Base Number (BN)	mg KOH/g	8.4	6.0	10.1	---
Oxidation (PA)	%	83	63	53	---



CONTAMINATION

Soot %	%	0.1	0.1	0.2	---
Nitration (PA)	%	74	79	50	---
Sulfation (PA)	%	63	55	50	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	0.8	<1.0	---
Silicon	ppm	8	27	2	---
Sodium	ppm	3	2	0	---
Potassium	ppm	0	6	1	---



WEAR METALS

Iron	ppm	5	9	2	---
Copper	ppm	48	366	2	---
Lead	ppm	0	1	<1	---
Tin	ppm	<1	3	<1	---
Aluminum	ppm	<1	3	1	---
Chromium	ppm	0	0	0	---
Molybdenum	ppm	49	91	57	---
Nickel	ppm	0	<1	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	<1	<1	---
Manganese	ppm	<1	2	<1	---
Vanadium	ppm	0	<1	<1	---



ADDITIVES

Calcium	ppm	1637	2163	1241	---
Magnesium	ppm	564	121	869	---
Zinc	ppm	1130	1212	1230	---
Phosphorus	ppm	922	1013	1056	---
Barium	ppm	0	0	0	---
Boron	ppm	10	29	<1	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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 has decreased, but is still abnormal. All other component wear rates are normal. 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: 10547686
Signed: Don Baldrige
Report Date: 08 Jul 2023



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GRAPHS

