



CONSTRUCTION EQUIPMENT

10022 VOLVO EC350E 314527 - DIESEL ENGINE



Sample No: VCP422157
Oil Type: CHEVRON 15W40
Job No: 10022



SAMPLE INFORMATION

Sample Number	VCP422157	VCP404403	VCP405053	---
Sample Date	11 Dec 2023	20 Jul 2023	21 Feb 2023	---
Machine Hours	3430	2038	523	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	SEVERE	ABNORMAL	ABNORMAL	---

RECYCLE 1
 4700 LAWRENCE ST
 HYATTSVILLE, MD
 US 20781
 Contact: MIKE DESJARDINS
 mdesjarkins@wbwaste.com
 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	▲ 12.3	▲ 12.3	▲ 10.6	---
Base Number (BN)	mg KOH/g	▲ 2.6	■ 4.8	■ 5.5	---
Oxidation (PA)	%	104	55	69	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	■ 0.1	■ 0.1	■ 0.1	---
Nitration (PA)	%	76	57	73	---
Sulfation (PA)	%	75	57	58	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	■ 0.9	---
Silicon	ppm	◆ 75	▲ 31	■ 37	---
Sodium	ppm	■ 8	■ 6	■ <1	---
Potassium	ppm	■ <1	■ <1	■ 6	---

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Elemental level of silicon (Si) above normal. The oil viscosity is lower than normal. The BN level is low. Confirm oil type.

WEAR METALS

Iron	ppm	■ 16	■ 8	■ 13	---
Copper	ppm	■ 14	▲ 22	▲ 204	---
Lead	ppm	■ 4	■ 3	■ 3	---
Tin	ppm	■ <1	■ 1	■ 2	---
Aluminum	ppm	■ 2	■ <1	■ 4	---
Chromium	ppm	■ 0	■ <1	■ 0	---
Molybdenum	ppm	■ 77	■ 13	■ 90	---
Nickel	ppm	■ 0	■ <1	■ <1	---
Titanium	ppm	2	<1	0	---
Silver	ppm	■ 0	■ 0	■ 0	---
Manganese	ppm	■ <1	■ <1	■ 3	---
Vanadium	ppm	0	<1	0	---

ADDITIVES

Calcium	ppm	■ 1652	■ 2293	■ 2272	---
Magnesium	ppm	■ 400	■ 111	39	---
Zinc	ppm	■ 1310	■ 1120	■ 1179	---
Phosphorus	ppm	■ 1042	■ 872	■ 964	---
Barium	ppm	■ 0	■ 0	■ <1	---
Boron	ppm	■ 33	■ 4	■ 33	---

Depot: RECHYA
Unique No: 10790930
Signed: Don Baldrige
Report Date: 19 Dec 2023



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GRAPHS

