



CONSTRUCTION EQUIPMENT

VOLVO ECR235CL 110174 - REAR LEFT FINAL DRIVE



Sample No: VC462249
Oil Type: CASTROL OUTBOARD GEAR OIL EP 90
Job No:



SAMPLE INFORMATION

Sample Number	VC462249	---	---	---
Sample Date	27 Oct 2014	---	---	---
Machine Hours	3624	---	---	---
Oil Hours	582	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

DAYTON CONSTRUCTION
 146 BUNKER HILL ROAD
 WATERTOWN, CT
 US 06795
 Contact: SERVICE MANAGER



OIL CONDITION

Visc @ 40°C	cSt	77.94	---	---	---
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T: (860)274-2998
 F:



CONTAMINATION

Silicon	ppm	▲ 196	---	---	---
Sodium	ppm	■ 14	---	---	---
Potassium	ppm	■ 15	---	---	---

Diagnosis
 We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition. High concentration of visible metal present. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	▲ 614	---	---	---
Copper	ppm	■ 2	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	▲ 42	---	---	---
Chromium	ppm	▲ 10	---	---	---
Molybdenum	ppm	■ <1	---	---	---
Nickel	ppm	2	---	---	---
Titanium	ppm	3	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 6	---	---	---
Vanadium	ppm	1	---	---	---



ADDITIVES

Calcium	ppm	■ 1941	---	---	---
Magnesium	ppm	■ 11	---	---	---
Zinc	ppm	■ 829	---	---	---
Phosphorus	ppm	■ 811	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 22	---	---	---

Depot: DAYWAT
Unique No: 6870847
Signed: Doug Bogart
Report Date: 08 Jan 2015



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GRAPHS

