



CONSTRUCTION EQUIPMENT

VOLVO ECR235CL 110174 - LEFT TRAVEL



Sample No: VC462380
Oil Type: CHEVRON DELO GEAR ESI OIL 85W140
Job No:



SAMPLE INFORMATION

Sample Number	VC462380	VC462509	VC464457	---
Sample Date	31 Oct 2013	05 Dec 2011	08 Mar 2010	---
Machine Hours	3042	2012	1058	---
Oil Hours	996	1000	558	---
Oil Changed	Changed	Changed	Not Changd	---
Sample Status	SEVERE	NORMAL	NORMAL	---

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



OIL CONDITION

Visc @ 40°C	cSt	198.3	165.7	172.3	---
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T: (860)274-2998
 F:



CONTAMINATION

Water	%	▲ 0.202	---	---	---
Silicon	ppm	◆ 837	34	26	---
Sodium	ppm	■ 51	4	4	---
Potassium	ppm	■ 71	4	3	---

Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a trace of moisture present in the oil. The oil is no longer serviceable due to the presence of contaminants.



WEAR METALS

Iron	ppm	▲ 1186	348	228	---
Copper	ppm	■ 3	<1	<1	---
Lead	ppm	■ <1	<1	<1	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	▲ 254	3	4	---
Chromium	ppm	▲ 37	10	6	---
Molybdenum	ppm	■ 0	0	0	---
Nickel	ppm	4	<1	<1	---
Titanium	ppm	■ 13	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	■ 16	7	6	---
Vanadium	ppm	1	<1	<1	---



ADDITIVES

Calcium	ppm	■ 44	6	5	---
Magnesium	ppm	■ 30	0	1	---
Zinc	ppm	■ 17	26	21	---
Phosphorus	ppm	■ 340	1091	1137	---
Barium	ppm	■ <1	0	<1	---
Boron	ppm	■ 19	1	1	---

Depot: DAYWAT
Unique No: 6431218
Signed: Jonathan Hester
Report Date: 04 Nov 2013



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GRAPHS

