



CONSTRUCTION EQUIPMENT

VOLVO EC460CL 110503 - FRONT RIGHT FINAL DRIVE



Sample No: VCP173410
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No:



SAMPLE INFORMATION

Sample Number	VCP173410	---	---	---
Sample Date	06 Apr 2016	---	---	---
Machine Hours	4441	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

HIGHWAY EQUIPMENT AND SUPPLY CO
 200 BURKHOLDER DR.
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OIL CONDITION

Visc @ 40°C	cSt	161.5	---	---	---
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CONTAMINATION

Silicon	ppm	428	---	---	---
Sodium	ppm	11	---	---	---
Potassium	ppm	31	---	---	---

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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. High concentration of visible metal present. Bearing and/or gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.



WEAR METALS

Iron	ppm	1153	---	---	---
Copper	ppm	124	---	---	---
Lead	ppm	4	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	95	---	---	---
Chromium	ppm	14	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	6	---	---	---
Titanium	ppm	6	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	11	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	224	---	---	---
Magnesium	ppm	11	---	---	---
Zinc	ppm	100	---	---	---
Phosphorus	ppm	870	---	---	---
Barium	ppm	2	---	---	---
Boron	ppm	100	---	---	---

Depot: INSEPH
Unique No: 7358279
Signed: Doug Bogart
Report Date: 08 Apr 2016



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GRAPHS

