



CONSTRUCTION EQUIPMENT

2194BO VOLVO EC350EL 310553 - REAR RIGHT FINAL DRIVE



Sample No: VCP402257
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 2194BO



SAMPLE INFORMATION

Sample Number	VCP402257	VCP336375	VCP301424	VCP292063
Sample Date	25 Jan 2023	28 Sep 2021	02 Mar 2021	30 Nov 2020
Machine Hours	6038	4058	2937	2553
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Not Changd	Not Changd
Sample Status	SEVERE	ABNORMAL	SEVERE	SEVERE

CHARTER HOMES
 1190 DILLERVILLE RD
 LANCASTER, PA
 US 17601
 Contact: NEIL CLARK



OIL CONDITION

Visc @ 40°C	cSt	307	198	233	231
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T: (717)564-3031
 F:



CONTAMINATION

Water	%	0.221	---	---	---
Silicon	ppm	1895	204	707	533
Sodium	ppm	27	3	11	7
Potassium	ppm	207	13	58	39

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. Gear wear is indicated. There is a light concentration of water present in the oil. 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	3921	796	2432	2180
Copper	ppm	9	2	6	5
Lead	ppm	<1	0	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	120	61	195	140
Chromium	ppm	24	7	24	22
Molybdenum	ppm	7	6	0	0
Nickel	ppm	2	<1	3	2
Titanium	ppm	30	4	14	10
Silver	ppm	0	0	0	0
Manganese	ppm	24	4	17	15
Vanadium	ppm	2	<1	0	<1



ADDITIVES

Calcium	ppm	468	184	154	140
Magnesium	ppm	149	52	39	34
Zinc	ppm	84	135	99	100
Phosphorus	ppm	844	859	747	734
Barium	ppm	2	<1	0	1
Boron	ppm	165	119	56	66

Depot: CHALANPA
Unique No: 10319884
Signed: Don Baldrige
Report Date: 01 Feb 2023



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VOLVO GRAPHS

