



CONSTRUCTION EQUIPMENT

2194BO VOLVO EC350EL 310553 - REAR LEFT FINAL DRIVE



Sample No: VCP402254
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 2194BO



SAMPLE INFORMATION

Sample Number	VCP402254	VCP336374	VCP301423	VCP292064
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	SEVERE	SEVERE	SEVERE

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



OIL CONDITION

Visc @ 40°C	cSt	308	214	234	232
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T: (717)564-3031
 F:



CONTAMINATION

Water	%	0.203	---	---	---
Silicon	ppm	1450	357	663	440
Sodium	ppm	16	5	9	5
Potassium	ppm	150	40	64	6

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	3502	1229	2563	2227
Copper	ppm	8	2	6	5
Lead	ppm	1	0	2	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	120	103	194	120
Chromium	ppm	24	11	25	21
Molybdenum	ppm	6	2	0	0
Nickel	ppm	2	2	2	<1
Titanium	ppm	22	7	13	8
Silver	ppm	0	0	0	<1
Manganese	ppm	21	7	18	16
Vanadium	ppm	1	<1	0	<1



ADDITIVES

Calcium	ppm	363	224	181	140
Magnesium	ppm	141	72	43	31
Zinc	ppm	73	124	108	107
Phosphorus	ppm	853	838	751	753
Barium	ppm	1	<1	0	<1
Boron	ppm	158	133	65	68

Depot: CHALANPA
Unique No: 10319883
Signed: Don Baldrige
Report Date: 01 Feb 2023



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VOLVO GRAPHS

