



CONSTRUCTION EQUIPMENT

SPM646635-40 VOLVO EC350EL 314018 - REAR LEFT FINAL DRIVE



Sample No: VCP421020
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: SPM646635-40



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
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SAMPLE INFORMATION

Sample Number	VCP421020	VCP323446	VCP302311	---
Sample Date	10 Feb 2024	30 Jun 2021	20 Jan 2021	---
Machine Hours	4219	1857	1299	---
Oil Hours	0	0	0	---
Oil Changed	N/A	N/A	Changed	---
Sample Status	SEVERE	NORMAL	ABNORMAL	---



OIL CONDITION

Visc @ 40°C	cSt	221	258	173	---
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CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	520	14	21	---
Sodium	ppm	1	<1	0	---
Potassium	ppm	2	<1	<1	---



WEAR METALS

Iron	ppm	2847	305	553	---
Copper	ppm	4	1	<1	---
Lead	ppm	0	<1	<1	---
Tin	ppm	<1	0	<1	---
Aluminum	ppm	27	0	0	---
Chromium	ppm	36	7	14	---
Molybdenum	ppm	8	2	1	---
Nickel	ppm	3	<1	<1	---
Titanium	ppm	3	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	21	3	7	---
Vanadium	ppm	<1	0	<1	---



ADDITIVES

Calcium	ppm	78	77	5	---
Magnesium	ppm	25	10	1	---
Zinc	ppm	61	45	8	---
Phosphorus	ppm	989	699	369	---
Barium	ppm	0	0	0	---
Boron	ppm	133	121	2	---

Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. 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. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLVO0093
Unique No: 10875817
Signed: Sean Felton
Report Date: 15 Feb 2024



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GRAPHS

