



CONSTRUCTION EQUIPMENT

X58881 VOLVO EC220EL 311040 - REAR LEFT FINAL DRIVE



Sample No: VCP426046
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: X58881



SCOTT EQUIPMENT COMPANY LLC - Saint Rose
 PO BOX 997
 SAINT ROSE, LA
 US 70087
 Contact: DANA FOSHEE
 dfoshee@scottcompanies.com
 T: (504)461-0961
 F: (504)461-0970



SAMPLE INFORMATION

Sample Number	VCP426046	VCP317768	---	---
Sample Date	15 Nov 2023	23 Jul 2021	---	---
Machine Hours	6713	2189	---	---
Oil Hours	6713	2189	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	ABNORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	360	334	---	---
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CONTAMINATION

Water	%	0.505	NEG	---	---
Silicon	ppm	697	71	---	---
Sodium	ppm	11	2	---	---
Potassium	ppm	25	4	---	---



WEAR METALS

Iron	ppm	3487	336	---	---
Copper	ppm	9	1	---	---
Lead	ppm	5	<1	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	106	11	---	---
Chromium	ppm	16	3	---	---
Molybdenum	ppm	2	<1	---	---
Nickel	ppm	10	1	---	---
Titanium	ppm	10	1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	23	3	---	---
Vanadium	ppm	<1	<1	---	---



ADDITIVES

Calcium	ppm	205	43	---	---
Magnesium	ppm	23	4	---	---
Zinc	ppm	40	42	---	---
Phosphorus	ppm	942	990	---	---
Barium	ppm	11	0	---	---
Boron	ppm	162	436	---	---

Diagnosis

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a moderate concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

Depot: SCOSAI
Unique No: 10751908
Signed: Jonathan Hester
Report Date: 22 Nov 2023



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GRAPHS

