



# CONSTRUCTION EQUIPMENT

## 3022 VOLVO EC380EL 311273 - SWING DRIVE



**Sample No:** VCP432601  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** 3022



### SAMPLE INFORMATION

Sample Number	VCP432601	VCP358382	VCP379119	VCP340597
Sample Date	25 Mar 2024	06 Feb 2023	10 Aug 2022	31 Mar 2022
Machine Hours	6130	5125	4625	4160
Oil Hours	0	0	1000	500
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

**LEONARDS CONTRACTING**  
 30850 STEPHENSON HWY  
 MADISON HEIGHTS, MI  
 US 48071  
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### OIL CONDITION

Visc @ 40°C	cSt	148	149	127	133
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	12	8	12	56
Sodium	ppm	2	0	<1	2
Potassium	ppm	2	<1	<1	0

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

### WEAR METALS

Iron	ppm	221	80	519	507
Copper	ppm	6	5	35	29
Lead	ppm	0	0	0	<1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	2	<1	3	9
Chromium	ppm	3	1	4	5
Molybdenum	ppm	<1	<1	1	1
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	3	<1	4	5
Vanadium	ppm	0	0	0	0

### ADDITIVES

Calcium	ppm	97	85	336	567
Magnesium	ppm	2	<1	4	0
Zinc	ppm	55	34	143	234
Phosphorus	ppm	1687	1654	803	975
Barium	ppm	0	0	<1	0
Boron	ppm	113	124	92	123

**Depot:** LEOMAD  
**Unique No:** 10963651  
**Signed:** Wes Davis  
**Report Date:** 05 Apr 2024



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## GRAPHS

