



# CONSTRUCTION EQUIPMENT

## VOLVO EC480E 311286 - LEFT SWING DRIVE



**Sample No:** VCP441122  
**Oil Type:** CHEVRON DELO GEAR ESI OIL 85W140  
**Job No:**



**MCLLUNG-LOGAN EQUIPMENT CO - WISE**  
 PO BOX 1158  
 WISE, VA  
 US 24293  
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### SAMPLE INFORMATION

Sample Number	<b>VCP441122</b>	VCP386429	VCP361104	---
Sample Date	<b>30 Nov 2023</b>	09 Nov 2022	23 Aug 2022	---
Machine Hours	<b>6054</b>	5022	4608	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>N/A</b>	Changed	Changed	---
Sample Status	<b>ABNORMAL</b>	SEVERE	ABNORMAL	---



### OIL CONDITION

Visc @ 40°C	cSt	<b>277</b>	282	106	---
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### CONTAMINATION

Water	%	<b>0.119</b>	NEG	NEG	---
Silicon	ppm	<b>138</b>	565	247	---
Sodium	ppm	<b>20</b>	3	0	---
Potassium	ppm	<b>4</b>	7	2	---



### WEAR METALS

Iron	ppm	<b>1012</b>	2405	1659	---
Copper	ppm	<b>93</b>	81	85	---
Lead	ppm	<b>0</b>	<1	<1	---
Tin	ppm	<b>0</b>	<1	0	---
Aluminum	ppm	<b>13</b>	35	14	---
Chromium	ppm	<b>10</b>	25	12	---
Molybdenum	ppm	<b>1</b>	10	4	---
Nickel	ppm	<b>&lt;1</b>	2	<1	---
Titanium	ppm	<b>2</b>	5	2	---
Silver	ppm	<b>0</b>	0	<1	---
Manganese	ppm	<b>12</b>	20	14	---
Vanadium	ppm	<b>0</b>	<1	0	---



### ADDITIVES

Calcium	ppm	<b>76</b>	48	40	---
Magnesium	ppm	<b>6</b>	5	4	---
Zinc	ppm	<b>86</b>	81	111	---
Phosphorus	ppm	<b>943</b>	1086	701	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>98</b>	237	57	---

### Diagnosis

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. Bearing and/or bushing wear is indicated. All other component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO8881  
**Unique No:** 10779527  
**Signed:** Don Baldrige  
**Report Date:** 12 Dec 2023



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## GRAPHS

