



# CONSTRUCTION EQUIPMENT

## VOLVO EC350EL 310856 - REAR LEFT FINAL DRIVE



**Sample No:** VCP416198  
**Oil Type:** MOBIL MOBILUBE HD 85W140  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP416198</b>	VCP418796	VCP361938	VCP286022
Sample Date	<b>28 Sep 2023</b>	23 Aug 2023	17 Mar 2022	13 Aug 2020
Machine Hours	<b>4122</b>	3993	1998	418
Oil Hours	<b>100</b>	2000	500	0
Oil Changed	<b>Not Chngd</b>	Changed	Changed	Changed
Sample Status	<b>SEVERE</b>	SEVERE	NORMAL	NORMAL

**MCCLUNG-LOGAN EQUIPMENT CO INC**  
 8450 QUARRY ROAD  
 MANASSAS, VA  
 US 20110  
 Contact: MIKE MAYHUGH  
 MMAYHUGH@MCCLUNG-LOGAN.COM  
 T: (703)393-7344  
 F: (703)393-7844



### OIL CONDITION

Visc @ 40°C	cSt	<b>232</b>	179	266	178
-------------	-----	------------	-----	-----	-----



### CONTAMINATION

Silicon	ppm	<b>294</b>	973	35	14
Sodium	ppm	<b>2</b>	6	0	3
Potassium	ppm	<b>7</b>	32	4	1



### WEAR METALS

Iron	ppm	<b>981</b>	2385	184	391
Copper	ppm	<b>2</b>	5	<1	<1
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>&lt;1</b>	<1	0	<1
Aluminum	ppm	<b>46</b>	165	9	0
Chromium	ppm	<b>12</b>	37	4	8
Molybdenum	ppm	<b>14</b>	17	5	<1
Nickel	ppm	<b>1</b>	3	0	<1
Titanium	ppm	<b>6</b>	18	<1	<1
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>7</b>	19	2	6
Vanadium	ppm	<b>&lt;1</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>301</b>	450	238	8
Magnesium	ppm	<b>124</b>	138	37	2
Zinc	ppm	<b>242</b>	298	117	4
Phosphorus	ppm	<b>716</b>	1034	1017	388
Barium	ppm	<b>0</b>	0	0	3
Boron	ppm	<b>106</b>	154	150	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 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:** VOLVO0002  
**Unique No:** 10671430  
**Signed:** Don Baldrige  
**Report Date:** 01 Oct 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

