



# CONSTRUCTION EQUIPMENT

## VOLVO EC350EL 310856 - REAR RIGHT FINAL DRIVE



**Sample No:** VCP416076  
**Oil Type:** MOBIL MOBILUBE HD 85W140  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP416076</b>	VCP416138	VCP361928	VCP278228
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

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### OIL CONDITION

Visc @ 40°C	cSt	<b>226</b>	177	272	178
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### CONTAMINATION

Silicon	ppm	<b>793</b>	2378	14	13
Sodium	ppm	<b>4</b>	12	0	4
Potassium	ppm	<b>19</b>	65	3	3

### 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.



### WEAR METALS

Iron	ppm	<b>2331</b>	5205	109	375
Copper	ppm	<b>5</b>	11	<1	<1
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>&lt;1</b>	1	0	<1
Aluminum	ppm	<b>103</b>	337	2	0
Chromium	ppm	<b>25</b>	66	3	8
Molybdenum	ppm	<b>15</b>	20	5	<1
Nickel	ppm	<b>4</b>	5	0	<1
Titanium	ppm	<b>14</b>	43	<1	<1
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>17</b>	39	1	6
Vanadium	ppm	<b>&lt;1</b>	1	0	0



### ADDITIVES

Calcium	ppm	<b>331</b>	497	170	9
Magnesium	ppm	<b>132</b>	154	49	3
Zinc	ppm	<b>255</b>	312	99	11
Phosphorus	ppm	<b>742</b>	1039	995	394
Barium	ppm	<b>0</b>	0	0	4
Boron	ppm	<b>112</b>	164	143	2

**Depot:** VOLVO0002  
**Unique No:** 10671429  
**Signed:** Don Baldrige  
**Report Date:** 01 Oct 2023



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## GRAPHS

