



CONSTRUCTION EQUIPMENT

A05836 VOLVO EC480E 3 10234 - REAR LEFT FINAL DRIVE



Sample No: VCP310395
Oil Type: MOBIL MOBILUBE HD 85W140
Job No: A05836



SAMPLE INFORMATION

Sample Number	VCP310395	VCP220466	VCP205158	VCP180630
Sample Date	18 May 2021	24 Jan 2019	05 May 2017	24 Sep 2016
Machine Hours	4415	3870	2200	0
Oil Hours	2000	1000	1000	1000
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	SEVERE	SEVERE	SEVERE	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	▲ 592	▲ 520.7	■ 263.8	■ 183.5
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CONTAMINATION

Water	%	---	■ 0.117	---	---
Silicon	ppm	■ 2335	■ 3212	■ 388	▲ 159
Sodium	ppm	■ 32	■ 58	■ 13	■ 2
Potassium	ppm	■ 113	■ 172	■ 27	■ 8

Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level is severe. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

WEAR METALS

Iron	ppm	■ 7616	■ 9105	▲ 685	▲ 675
Copper	ppm	■ 18	■ 26	■ 0	■ <1
Lead	ppm	■ 2	■ 0	■ 0	■ <1
Tin	ppm	■ 2	■ 0	■ 11	■ 0
Aluminum	ppm	▲ 390	▲ 570	▲ 78	▲ 30
Chromium	ppm	■ 55	■ 68	■ 7	■ 9
Molybdenum	ppm	■ 13	■ 0	■ 0	0
Nickel	ppm	■ 5	5	<1	<1
Titanium	ppm	■ 44	■ 58	7	3
Silver	ppm	■ <1	0	0	0
Manganese	ppm	■ 52	■ 67	■ 7	7
Vanadium	ppm	1	2	<1	<1

ADDITIVES

Calcium	ppm	■ 133	■ 149	■ 125	6
Magnesium	ppm	■ 57	■ 64	■ 20	1
Zinc	ppm	■ 69	■ 86	■ 64	9
Phosphorus	ppm	■ 797	■ 624	■ 824	272
Barium	ppm	■ 0	■ 5	■ <1	6
Boron	ppm	■ 164	■ 82	■ 116	2

Depot: KCCIVY
Unique No: 9514977
Signed: Don Baldrige
Report Date: 25 May 2021



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GRAPHS

