



CONSTRUCTION EQUIPMENT

A10991 VOLVO EC480DL 210065 - REAR LEFT FINAL DRIVE



Sample No: VCP424770
Oil Type: MOBIL MOBILUBE HD 80W90
Job No: A10991



SAMPLE INFORMATION

Sample Number	VCP424770	VCP399151	VCP246384	VCP248798
Sample Date	26 Aug 2023	13 Jan 2023	24 Feb 2020	29 Aug 2019
Machine Hours	8275	7764	5900	5480
Oil Hours	1000	0	1000	500
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	ABNORMAL	SEVERE	SEVERE	ABNORMAL

JAMES J ANDERSON
 6958 TORRESDALE AVENUE
 PHILADELPHIA, PA
 US 19135
 Contact: JOHN HERBUT
 herb@jjaconstruction.com
 T: (215)850-9051
 F: (215)427-0208



OIL CONDITION

Visc @ 40°C	cSt	165	172	282	282
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CONTAMINATION

Silicon	ppm	▲ 88	674	493	▲ 240
Sodium	ppm	■ 3	19	13	9
Potassium	ppm	■ 5	25	31	11



WEAR METALS

Iron	ppm	■ 230	1777	▲ 1063	475
Copper	ppm	■ 20	▲ 104	▲ 90	54
Lead	ppm	■ 0	2	0	<1
Tin	ppm	■ 1	▲ 10	0	4
Aluminum	ppm	▲ 10	▲ 117	▲ 77	▲ 37
Chromium	ppm	■ 2	▲ 16	▲ 12	5
Molybdenum	ppm	■ <1	2	<1	2
Nickel	ppm	■ <1	▲ 10	4	2
Titanium	ppm	1	▲ 11	7	3
Silver	ppm	0	0	0	0
Manganese	ppm	■ 3	13	10	4
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	■ 18	114	99	85
Magnesium	ppm	■ <1	47	36	25
Zinc	ppm	■ 0	23	68	67
Phosphorus	ppm	■ 982	1019	832	786
Barium	ppm	■ 0	<1	<1	0
Boron	ppm	■ 167	161	117	104

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. Resample at the next service interval to monitor. All 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: JAAPHI
Unique No: 10648988
Signed: Sean Felton
Report Date: 19 Sep 2023



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VOLVO GRAPHS

