



CONSTRUCTION EQUIPMENT

A11204 VOLVO ECR235E 310119 - REAR RIGHT FINAL DRIVE



Sample No: VCP412823
Oil Type: MOBIL MOBILUBE HD 80W90
Job No: A11204



SAMPLE INFORMATION

Sample Number	VCP412823	VCP410779	VCP372242	VCP348595
Sample Date	27 Sep 2023	18 Mar 2023	09 Jun 2022	28 Feb 2022
Machine Hours	5960	5440	4836	4490
Oil Hours	1500	1000	0	2000
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	ABNORMAL	ABNORMAL	NORMAL	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	261	270	271	311
-------------	-----	------------	-----	-----	-----



CONTAMINATION

Silicon	ppm	▲ 223	65	42	▲ 188
Sodium	ppm	5	<1	<1	4
Potassium	ppm	12	2	0	6



WEAR METALS

Iron	ppm	▲ 517	577	331	▲ 1144
Copper	ppm	<1	<1	<1	2
Lead	ppm	0	<1	0	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	▲ 68	9	5	▲ 23
Chromium	ppm	8	6	3	▲ 13
Molybdenum	ppm	0	1	1	2
Nickel	ppm	<1	<1	0	1
Titanium	ppm	5	<1	<1	3
Silver	ppm	0	0	0	2
Manganese	ppm	4	4	2	9
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	59	51	29	57
Magnesium	ppm	15	3	<1	14
Zinc	ppm	31	24	16	19
Phosphorus	ppm	1485	1250	1194	1007
Barium	ppm	0	0	0	0
Boron	ppm	193	152	195	140

Diagnosis

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. Gear 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: JAAPHI
Unique No: 10673205
Signed: Don Baldrige
Report Date: 04 Oct 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

