



CONSTRUCTION EQUIPMENT

A11204 VOLVO ECR235E 310119 - REAR LEFT FINAL DRIVE



Sample No: VCP412025
Oil Type: MOBIL MOBILUBE HD 80W90
Job No: A11204



SAMPLE INFORMATION

Sample Number	VCP412025	VCP399920	VCP372063	VCP356327
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	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	269	270	271	312
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CONTAMINATION

Silicon	ppm	▲ 108	23	13	51
Sodium	ppm	3	0	0	2
Potassium	ppm	3	1	0	3



WEAR METALS

Iron	ppm	▲ 786	276	123	397
Copper	ppm	0	<1	<1	<1
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	▲ 20	4	3	11
Chromium	ppm	9	3	2	7
Molybdenum	ppm	0	<1	<1	2
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	2	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	5	1	<1	3
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	64	38	32	72
Magnesium	ppm	9	2	0	8
Zinc	ppm	42	15	17	21
Phosphorus	ppm	1574	1258	1180	995
Barium	ppm	0	0	0	0
Boron	ppm	201	167	216	152

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. 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: 10673211
Signed: Don Baldrige
Report Date: 04 Oct 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

