



CONSTRUCTION EQUIPMENT

A12681 VOLVO ECR235CL 110022 - REAR LEFT FINAL DRIVE



Sample No: VCP454454
Oil Type: MOBIL MOBILUBE HD PLUS 85W140
Job No: A12681



SAMPLE INFORMATION

Sample Number	VCP454454	VCP363936	VCP341023	VCP228901
Sample Date	16 May 2024	26 Aug 2022	07 Dec 2021	23 Jul 2018
Machine Hours	10505	9785	9125	6740
Oil Hours	700	2000	1500	500
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	330	322	255	249.6
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	338	271	148	28
Sodium	ppm	6	3	5	4
Potassium	ppm	19	16	16	3

Diagnosis

We advise that you check all areas where dirt can enter the system. 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.



WEAR METALS

Iron	ppm	1452	564	1389	198
Copper	ppm	4	1	3	<1
Lead	ppm	<1	0	<1	0
Tin	ppm	0	0	1	0
Aluminum	ppm	53	48	28	4
Chromium	ppm	9	4	7	2
Molybdenum	ppm	2	1	4	3
Nickel	ppm	1	0	1	<1
Titanium	ppm	7	6	2	<1
Silver	ppm	<1	0	<1	0
Manganese	ppm	9	4	9	1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	51	39	134	175
Magnesium	ppm	12	10	16	19
Zinc	ppm	24	15	126	101
Phosphorus	ppm	457	471	783	830
Barium	ppm	0	0	0	<1
Boron	ppm	40	64	56	115

Depot: JAAPHI
Unique No: 11049325
Signed: Don Baldrige
Report Date: 30 May 2024



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GRAPHS

