



CONSTRUCTION EQUIPMENT

716824 SYNERGY VOLVO ECR235 314203 - SWING DRIVE



Sample No: VCP450719
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 716824 SYNERGY



SAMPLE INFORMATION

Sample Number	VCP450719	VCP395987	VCP337036	VCP335516
Sample Date	21 May 2024	24 Feb 2023	09 Jun 2022	15 Nov 2021
Machine Hours	4253	3136	2375	1831
Oil Hours	0	1000	1000	1000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	SEVERE	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	285	283	303	173
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CONTAMINATION

Water	%	▲ 1.03	NEG	▲ 1.10	NEG
Silicon	ppm	9	4	3	8
Sodium	ppm	2	0	1	0
Potassium	ppm	1	<1	0	0



WEAR METALS

Iron	ppm	263	147	107	200
Copper	ppm	11	4	4	9
Lead	ppm	<1	0	0	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	1	<1	<1	<1
Chromium	ppm	3	1	1	2
Molybdenum	ppm	6	5	2	<1
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	<1	0	1	<1
Manganese	ppm	3	2	2	4
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	72	59	83	89
Magnesium	ppm	30	29	14	<1
Zinc	ppm	81	76	53	36
Phosphorus	ppm	958	867	684	458
Barium	ppm	0	0	0	<1
Boron	ppm	127	86	97	4

Diagnosis

We advise that you check for the source of water entry. 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. Appearance is milky. There is a high concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO0093
Unique No: 11049293
Signed: Don Baldrige
Report Date: 30 May 2024



CONSTRUCTION EQUIPMENT



GRAPHS

