



CONSTRUCTION EQUIPMENT

SW-27009-2 CASTLE VOLVO EC350EL 3 10786 - SWING DRIVE



Sample No: VCP414458
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: SW-27009-2 CASTLE



SAMPLE INFORMATION

Sample Number	VCP414458	VCP395801	VCP383487	VCP337510
Sample Date	30 Nov 2023	06 Jul 2023	06 Jan 2023	17 Aug 2022
Machine Hours	8434	7380	6328	5369
Oil Hours	1000	1000	1000	1000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	183	164	178	152
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	15	5	10	7
Sodium	ppm	3	0	0	3
Potassium	ppm	0	<1	<1	4

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	490	117	75	122
Copper	ppm	7	3	2	4
Lead	ppm	0	0	<1	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	3	<1	0	2
Chromium	ppm	6	2	<1	2
Molybdenum	ppm	249	87	189	<1
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	6	2	<1	2
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	6	54	103	6
Magnesium	ppm	0	<1	2	2
Zinc	ppm	25	51	69	18
Phosphorus	ppm	812	929	660	934
Barium	ppm	0	0	0	<1
Boron	ppm	64	133	51	131

Depot: VOLVO8770
Unique No: 10776644
Signed: Jonathan Hester
Report Date: 08 Dec 2023



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GRAPHS

