



CONSTRUCTION EQUIPMENT

W02007788 VOLVO EC350EL 310806 - SWING DRIVE



Sample No: VCP384492
Oil Type: MOBIL MOBILUBE HD 85W140
Job No: W02007788



SAMPLE INFORMATION

Sample Number	VCP384492	VCP320872	VCP190197	VCP258094
Sample Date	30 Nov 2023	03 Nov 2021	21 Apr 2020	23 Sep 2019
Machine Hours	5964	3986	2014	1022
Oil Hours	1000	1000	1000	1022
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	▲ 152	▲ 123	▲ 126	178
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	■ 6	■ 5	■ 7	■ 10
Sodium	ppm	■ 3	■ <1	■ 1	■ 2
Potassium	ppm	■ 4	■ 6	■ 6	■ 3

Diagnosis

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. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.



WEAR METALS

Iron	ppm	■ 219	■ 141	■ 160	■ 292
Copper	ppm	■ 3	■ 2	■ 4	■ 10
Lead	ppm	■ 0	■ <1	■ <1	■ 0
Tin	ppm	■ 0	0	0	0
Aluminum	ppm	■ <1	<1	1	1
Chromium	ppm	■ 2	2	2	5
Molybdenum	ppm	■ 16	■ 18	■ 21	■ 0
Nickel	ppm	■ 0	<1	<1	0
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ 2	■ 1	■ 2	■ 4
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	■ 531	■ 773	■ 901	■ 10
Magnesium	ppm	■ 118	■ 122	■ 199	■ <1
Zinc	ppm	■ 314	■ 291	■ 409	■ 15
Phosphorus	ppm	■ 911	■ 693	■ 740	■ 374
Barium	ppm	■ 0	■ 0	■ 0	■ 2
Boron	ppm	■ 143	■ 104	■ 85	■ 2

Depot: VOLVO0002
Unique No: 10777968
Signed: Don Baldrige
Report Date: 10 Dec 2023



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GRAPHS

