



CONSTRUCTION EQUIPMENT

W02007788 VOLVO EC350EL 310806 - REAR LEFT FINAL DRIVE



Sample No: VCP384488
Oil Type: MOBIL MOBILUBE HD 85W140
Job No: W02007788



SAMPLE INFORMATION

Sample Number	VCP384488	VCP319132	VCP286014	VCP290685
Sample Date	30 Nov 2023	03 Nov 2021	07 Apr 2021	24 Nov 2020
Machine Hours	5964	3986	3580	3080
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	156	174	164	130
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	▲ 120	54	▲ 148	▲ 152
Sodium	ppm	■ 4	<1	<1	<1
Potassium	ppm	■ 10	14	6	10

Diagnosis

We advise that you check all areas where dirt can enter the system. 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. 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	■ 642	204	460	214
Copper	ppm	■ 2	<1	1	<1
Lead	ppm	■ 0	<1	0	<1
Tin	ppm	■ 0	0	0	<1
Aluminum	ppm	▲ 18	8	▲ 20	▲ 38
Chromium	ppm	■ 7	2	5	4
Molybdenum	ppm	■ 17	12	18	21
Nickel	ppm	■ <1	<1	0	<1
Titanium	ppm	2	<1	2	3
Silver	ppm	0	0	1	<1
Manganese	ppm	■ 4	1	3	2
Vanadium	ppm	<1	<1	0	<1



ADDITIVES

Calcium	ppm	■ 539	370	519	782
Magnesium	ppm	■ 126	102	123	125
Zinc	ppm	■ 297	205	291	363
Phosphorus	ppm	■ 936	755	965	819
Barium	ppm	■ 0	0	0	<1
Boron	ppm	■ 162	134	166	137

Depot: VOLVO0002
Unique No: 10777966
Signed: Don Baldrige
Report Date: 10 Dec 2023



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VOLVO GRAPHS

