



CONSTRUCTION EQUIPMENT

W02008233 VOLVO EC300E 313052 - REAR RIGHT FINAL DRIVE



Sample No: VCP447924
Oil Type: MOBIL MOBILUBE HD 85W140
Job No: W02008233



SAMPLE INFORMATION

Sample Number	VCP447924	VCP319135	VCP319455	VCP323743
Sample Date	07 May 2024	15 Dec 2023	27 Apr 2022	25 Jun 2021
Machine Hours	6650	6051	3982	2520
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	SEVERE	ABNORMAL	ABNORMAL	ABNORMAL

MCCLUNG-LOGAN EQUIPMENT CO - MANASSAS
 8450 QUARRY ROAD
 MANASSAS, VA
 US 20110
 Contact: MIKE MAYHUGH
 MMAYHUGH@MCCLUNG-LOGAN.COM
 T: (703)393-7344
 F: (703)393-7844



OIL CONDITION

Visc @ 40°C	cSt	213	148	161	172
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	▲ 342	▲ 179	▲ 175	▲ 96
Sodium	ppm	■ 4	■ 2	■ 2	■ 1
Potassium	ppm	■ 21	■ 13	■ 15	■ 12

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. We recommend an early resample to monitor this condition. Gear wear is indicated. 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	▲ 728	▲ 739	▲ 512	■ 311
Copper	ppm	■ 1	■ 2	■ 2	■ 1
Lead	ppm	■ <1	■ 0	■ 0	■ 0
Tin	ppm	■ 0	■ 0	■ <1	■ <1
Aluminum	ppm	● 74	● 49	● 52	● 21
Chromium	ppm	■ 9	■ 9	■ 6	■ 4
Molybdenum	ppm	■ 9	■ 17	■ 17	■ 14
Nickel	ppm	■ 1	■ <1	<1	0
Titanium	ppm	10	4	4	2
Silver	ppm	0	0	<1	0
Manganese	ppm	■ 5	■ 6	■ 4	■ 3
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Calcium	ppm	■ 222	■ 506	■ 531	■ 372
Magnesium	ppm	■ 82	■ 186	■ 144	113
Zinc	ppm	■ 179	■ 370	■ 317	■ 228
Phosphorus	ppm	■ 1072	■ 1064	■ 939	■ 835
Barium	ppm	■ <1	■ 0	■ 0	■ 0
Boron	ppm	■ 131	■ 138	■ 143	■ 275

Depot: VOLVO0002
Unique No: 11020340
Signed: Angela Borella
Report Date: 13 May 2024



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GRAPHS

