



CONSTRUCTION EQUIPMENT

W02007841 VOLVO EC300E 313052 - REAR RIGHT FINAL DRIVE



Sample No: VCP319135
Oil Type: MOBIL MOBILUBE HD 85W140
Job No: W02007841



SAMPLE INFORMATION

Sample Number	VCP319135	VCP319455	VCP323743	VCP292194
Sample Date	15 Dec 2023	27 Apr 2022	25 Jun 2021	01 Apr 2021
Machine Hours	6051	3982	2520	2035
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	SEVERE

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OIL CONDITION

Visc @ 40°C	cSt	148	161	172	171
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	▲ 179	▲ 175	▲ 96	▲ 293
Sodium	ppm	■ 2	■ 2	■ 1	■ 4
Potassium	ppm	■ 13	■ 15	■ 12	■ 22

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. 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	▲ 739	▲ 512	■ 311	▲ 591
Copper	ppm	■ 2	■ 2	■ 1	■ 2
Lead	ppm	■ 0	■ 0	■ 0	■ <1
Tin	ppm	■ 0	■ <1	■ <1	■ <1
Aluminum	ppm	▲ 49	▲ 52	▲ 21	▲ 62
Chromium	ppm	■ 9	■ 6	■ 4	▲ 11
Molybdenum	ppm	■ 17	■ 17	■ 14	■ 17
Nickel	ppm	■ <1	<1	0	1
Titanium	ppm	4	4	2	6
Silver	ppm	0	<1	0	1
Manganese	ppm	■ 6	■ 4	■ 3	■ 6
Vanadium	ppm	<1	<1	0	<1



ADDITIVES

Calcium	ppm	■ 506	■ 531	■ 372	■ 439
Magnesium	ppm	■ 186	■ 144	113	117
Zinc	ppm	■ 370	■ 317	■ 228	■ 255
Phosphorus	ppm	■ 1064	■ 939	■ 835	■ 913
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 138	■ 143	■ 275	■ 155

Depot: VOLVO0002
Unique No: 10804165
Signed: Jonathan Hester
Report Date: 27 Dec 2023

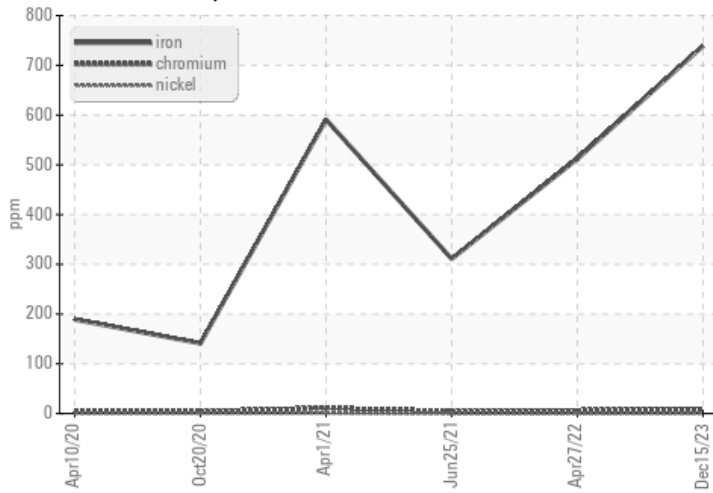


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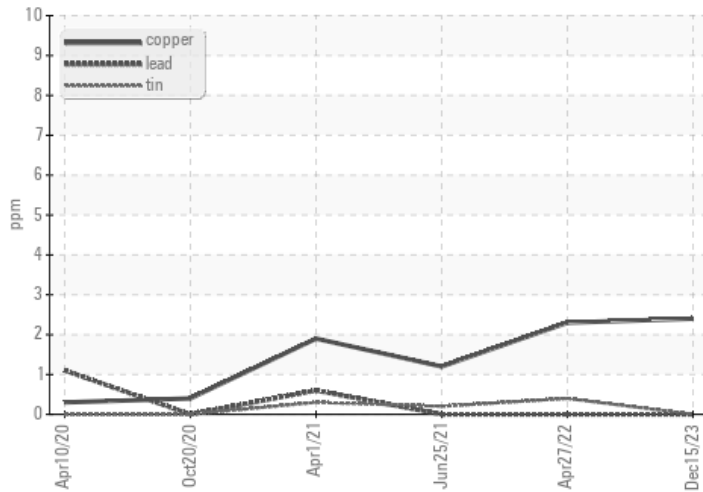


GRAPHS

▲ Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

