



CONSTRUCTION EQUIPMENT

W02007841 VOLVO EC300E 313052 - REAR LEFT FINAL DRIVE



Sample No: VCP189747
Oil Type: MOBIL MOBILUBE HD 85W140
Job No: W02007841



SAMPLE INFORMATION

Sample Number	VCP189747	VCP319454	VCP321688	VCP286021
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	SEVERE	SEVERE	ABNORMAL	SEVERE

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OIL CONDITION

Visc @ 40°C	cSt	152	159	168	171
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	408	262	140	302
Sodium	ppm	4	2	2	4
Potassium	ppm	22	11	9	18

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 oil is no longer serviceable due to the presence of contaminants.



WEAR METALS

Iron	ppm	1294	728	443	558
Copper	ppm	3	2	2	2
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	100	71	34	77
Chromium	ppm	14	9	6	10
Molybdenum	ppm	18	18	15	14
Nickel	ppm	2	<1	<1	<1
Titanium	ppm	8	6	3	6
Silver	ppm	0	<1	2	<1
Manganese	ppm	10	5	4	6
Vanadium	ppm	<1	<1	<1	<1



ADDITIVES

Calcium	ppm	540	581	381	394
Magnesium	ppm	190	155	117	112
Zinc	ppm	364	320	237	238
Phosphorus	ppm	1050	960	852	892
Barium	ppm	0	0	0	0
Boron	ppm	145	165	296	139

Depot: VOLVO0002
Unique No: 10804167
Signed: Jonathan Hester
Report Date: 27 Dec 2023

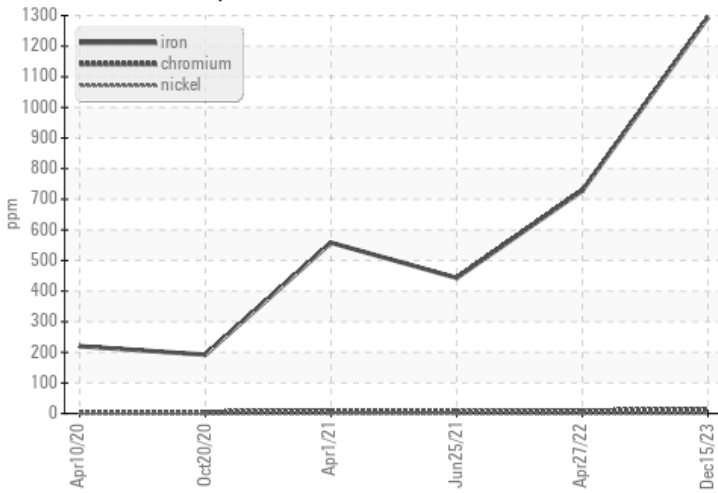


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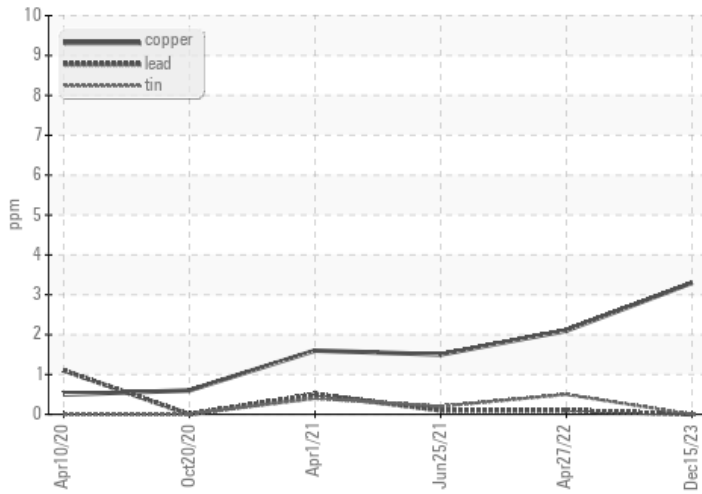


GRAPHS

▲ Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

