



CONSTRUCTION EQUIPMENT

593719 TUCKER VOLVO EC380E 314427 - REAR RIGHT FINAL DRIVE



Sample No: VCP422485
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 593719 TUCKER



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SAMPLE INFORMATION

Sample Number	VCP422485	VCP410345	VCP359344	VCP315592
Sample Date	09 Aug 2023	13 Mar 2023	25 Apr 2022	09 Jul 2021
Machine Hours	4011	3403	2240	1053
Oil Hours	2000	3403	1000	1053
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	241	241	173	179
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CONTAMINATION

Silicon	ppm	▲ 83	63	35	29
Sodium	ppm	■ 2	1	2	2
Potassium	ppm	■ 0	0	0	<1



WEAR METALS

Iron	ppm	▲ 844	644	399	206
Copper	ppm	■ 2	<1	2	<1
Lead	ppm	■ 0	0	0	0
Tin	ppm	■ 0	0	0	0
Aluminum	ppm	▲ 15	13	4	2
Chromium	ppm	▲ 16	12	7	4
Molybdenum	ppm	■ 3	3	<1	<1
Nickel	ppm	■ <1	0	<1	0
Titanium	ppm	1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	■ 7	6	5	3
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	■ 27	54	29	<1
Magnesium	ppm	■ 6	10	0	0
Zinc	ppm	■ 28	33	19	10
Phosphorus	ppm	■ 954	966	315	278
Barium	ppm	■ 0	0	0	0
Boron	ppm	■ 109	105	9	9

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. No corrective action is recommended at this time. 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.

Depot: VOLVO0093
Unique No: 10620314
Signed: Sean Felton
Report Date: 28 Aug 2023



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GRAPHS

