



CONSTRUCTION EQUIPMENT

SWO-069177 TAKEUCHI TL6 406001662 - REAR LEFT FINAL DRIVE



Sample No: VCP444471
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: SWO-069177



SAMPLE INFORMATION

Sample Number	VCP444471	VCP380773	VCP372892	VCP357818
Sample Date	20 Feb 2024	10 Jan 2023	10 Jul 2022	29 Mar 2022
Machine Hours	3140	3027	2241	1812
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	SEVERE	ATTENTION	ABNORMAL	SEVERE

WHITAKER CONTRACTING

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OIL CONDITION

Visc @ 40°C	cSt	▲ 5228	● 157	■ 338	■ 274
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CONTAMINATION

Water	%	▲ 0.409	NEG	NEG	NEG
Silicon	ppm	▲ 2044	■ 14	▲ 111	▲ 95
Sodium	ppm	■ 48	■ 3	■ 2	■ 4
Potassium	ppm	■ 288	■ 0	■ 15	■ 12



WEAR METALS

Iron	ppm	▲ 9424	■ 353	▲ 1194	▲ 1558
Copper	ppm	■ 21	■ <1	■ 6	■ 3
Lead	ppm	■ 2	■ 0	■ <1	■ 0
Tin	ppm	■ 2	■ <1	■ <1	■ <1
Aluminum	ppm	● 582	■ 2	● 39	● 27
Chromium	ppm	▲ 97	■ 4	▲ 11	▲ 13
Molybdenum	ppm	■ 14	■ <1	■ 1	■ 3
Nickel	ppm	■ 16	■ <1	2	3
Titanium	ppm	■ 37	<1	2	2
Silver	ppm	0	0	0	<1
Manganese	ppm	■ 82	■ 4	■ 8	■ 11
Vanadium	ppm	1	0	0	0



ADDITIVES

Calcium	ppm	■ 4943	■ 18	■ 517	■ 536
Magnesium	ppm	■ 1133	■ 2	■ 101	■ 97
Zinc	ppm	■ 98	■ 0	■ 22	■ 58
Phosphorus	ppm	■ 812	■ 243	■ 504	■ 899
Barium	ppm	■ 7	■ 0	■ 0	■ 0
Boron	ppm	■ 120	■ 4	■ 71	■ 117

Diagnosis

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. 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. There is a moderate concentration of water present in the oil. The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

Depot: WHIGUN
Unique No: 10900284
Signed: Jonathan Hester
Report Date: 29 Feb 2024



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VOLVO GRAPHS

