



CONSTRUCTION EQUIPMENT

JMX 8-394539 VOLVO EC380E 314333 - REAR RIGHT FINAL DRIVE



Sample No: VCP449312
Oil Type: GEAR OIL SAE 80W90
Job No: 8-394539



STRONGCO EQUIPMENT INC.
1640 ENTERPRISE ROAD
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SAMPLE INFORMATION

Sample Number	VCP449312	VCP347152	VCP298415	---
Sample Date	07 Mar 2024	12 Aug 2022	27 Jul 2021	---
Machine Hours	4157	2084	503	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	ABNORMAL	NORMAL	---



OIL CONDITION

Visc @ 40°C	cSt	▲ 54.5	▲ 66.9	■ 174	---
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CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	▲ 703	▲ 703	■ 8	---
Sodium	ppm	■ 30	■ 33	■ 2	---
Potassium	ppm	■ 48	■ 48	■ 2	---



WEAR METALS

PQ		988	584	---	---
Iron	ppm	▲ 4044	▲ 3929	■ 204	---
Copper	ppm	■ 7	■ 6	■ <1	---
Lead	ppm	■ <1	■ <1	■ <1	---
Tin	ppm	■ 0	■ 0	■ 0	---
Aluminum	ppm	● 143	● 137	■ 2	---
Chromium	ppm	▲ 41	▲ 31	■ 5	---
Molybdenum	ppm	■ 4	■ 3	■ <1	---
Nickel	ppm	■ 2	0	<1	---
Titanium	ppm	9	▲ 11	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	36	27	■ 4	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	420	463	■ 7	---
Magnesium	ppm	■ 60	■ 54	■ 3	---
Zinc	ppm	■ 21	■ 40	■ 13	---
Phosphorus	ppm	■ 2321	■ 1789	■ 447	---
Barium	ppm	■ 0	■ 2	■ 4	---
Boron	ppm	■ 201	■ 127	■ 1	---

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. Chromium and iron ppm levels are abnormal. Aluminum ppm levels are noted. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component. Viscosity of sample indicates oil is within SAE 75W80 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: SHEMIS
Unique No: 5746692
Signed: Kevin Marson
Report Date: 13 Mar 2024



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GRAPHS

