



CONSTRUCTION EQUIPMENT

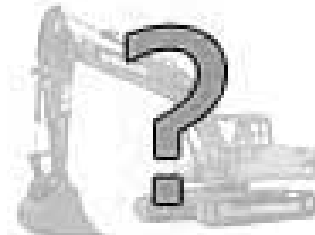
381835 XCMG XE360U THKAO0106 - REAR LEFT FINAL DRIVE



Sample No: VCP352609

Oil Type: SAE 80W90

Job No: 381835



SAMPLE INFORMATION

Sample Number	VCP352609	---	---	---
Sample Date	14 Nov 2023	---	---	---
Machine Hours	4022	---	---	---
Oil Hours	2000	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

STRONGCO EQUIPMENT-EDMONTON

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OIL CONDITION

Visc @ 40°C	cSt	▲ 43.7	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	▲ 911	---	---	---
Sodium	ppm	■ 37	---	---	---
Potassium	ppm	■ 51	---	---	---



WEAR METALS

PQ		▲ 720	---	---	---
Iron	ppm	▲ 2629	---	---	---
Copper	ppm	■ 8	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	▲ 218	---	---	---
Chromium	ppm	▲ 27	---	---	---
Molybdenum	ppm	■ 2	---	---	---
Nickel	ppm	▲ 13	---	---	---
Titanium	ppm	▲ 14	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	■ 23	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	2289	---	---	---
Magnesium	ppm	■ 74	---	---	---
Zinc	ppm	1013	---	---	---
Phosphorus	ppm	■ 784	---	---	---
Barium	ppm	■ 10	---	---	---
Boron	ppm	■ 13	---	---	---

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. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. The fluid was specified as (GENERIC) SAE 80W90, however, a fluid match indicates that this fluid is SAE 10W Transmission/Drive Train Oil. Please confirm the oil type and grade on your next sample. PQ levels are abnormal. Chromium and iron and nickel ppm levels are abnormal. Aluminum ppm levels are noted. Titanium ppm levels are marginal. Gear wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring. 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 10W range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: VOLVO3908

Unique No: 5694100

Signed: Kevin Marson

Report Date: 07 Dec 2023



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GRAPHS

