



CONSTRUCTION EQUIPMENT

SW-28280-2 TNT VOLVO EC220E 314182 - REAR LEFT FINAL DRIVE



Sample No: VCP435836
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: SW-28280-2 TNT



SAMPLE INFORMATION

Sample Number	VCP435836	---	---	---
Sample Date	23 Jan 2024	---	---	---
Machine Hours	2683	---	---	---
Oil Hours	2683	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

ARNOLD MACHINERY COMPANY
 2975 WEST 2100 SOUTH
 SALT LAKE CITY, UT
 US 84119
 Contact: TJ LARK
 tlark@arnoldmachinery.com
 T: (801)972-4000
 F: (801)975-9434



OIL CONDITION

Visc @ 40°C	cSt	■ 242	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	● 1506	---	---	---
Sodium	ppm	■ 25	---	---	---
Potassium	ppm	■ 82	---	---	---



WEAR METALS

Iron	ppm	● 5404	---	---	---
Copper	ppm	■ 11	---	---	---
Lead	ppm	■ 1	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	▲ 184	---	---	---
Chromium	ppm	● 40	---	---	---
Molybdenum	ppm	■ 4	---	---	---
Nickel	ppm	▲ 12	---	---	---
Titanium	ppm	■ 13	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 42	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 642	---	---	---
Magnesium	ppm	■ 116	---	---	---
Zinc	ppm	■ 28	---	---	---
Phosphorus	ppm	■ 368	---	---	---
Barium	ppm	■ 7	---	---	---
Boron	ppm	■ 5	---	---	---

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 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. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: VOLVO8770
Unique No: 10858214
Signed: Sean Felton
Report Date: 02 Feb 2024

VOLVO **GRAPHS**

