



# CONSTRUCTION EQUIPMENT

366880 27-4553 - FRONT LEFT FINAL DRIVE



**Sample No:** VCP394948  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** 366880



## SAMPLE INFORMATION

Sample Number	VCP394948	VCP352367	---	---
Sample Date	09 Jun 2023	11 Aug 2022	---	---
Machine Hours	2034	481	---	---
Oil Hours	2000	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

**CRH CANADA GROUP INC.**  
P.O. BOX 5400  
CONCORD, ON  
CA L4K 1B6  
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T:  
F:

## OIL CONDITION

Visc @ 40°C	cSt	█ 127	█ 180	---	---
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## CONTAMINATION

Silicon	ppm	▲ 161	█ 8	---	---
Sodium	ppm	█ 11	█ <1	---	---
Potassium	ppm	█ 12	█ <1	---	---

## WEAR METALS

PQ		█ 24	---	---	---
Iron	ppm	▲ 781	█ 242	---	---
Copper	ppm	█ 4	█ <1	---	---
Lead	ppm	█ <1	█ 0	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	▲ 36	█ <1	---	---
Chromium	ppm	█ 10	█ 3	---	---
Molybdenum	ppm	█ <1	█ <1	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	2	0	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	█ 9	█ 3	---	---
Vanadium	ppm	<1	0	---	---

## ADDITIVES

Calcium	ppm	█ 114	12	---	---
Magnesium	ppm	█ 15	█ 2	---	---
Zinc	ppm	█ 73	█ 7	---	---
Phosphorus	ppm	█ 728	197	---	---
Barium	ppm	█ 2	█ 1	---	---
Boron	ppm	█ 77	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. Iron ppm levels are abnormal. Aluminum ppm levels are noted. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. 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. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

**Depot:** HOLCON  
**Unique No:** 5604058  
**Signed:** Kevin Marson  
**Report Date:** 29 Jun 2023



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## GRAPHS

