



CONSTRUCTION EQUIPMENT

VOLVO EC380 314840 - REAR RIGHT FINAL DRIVE



Sample No: VCP415808
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No:



SAMPLE INFORMATION

Sample Number	VCP415808	VCP395869	VCP363893	---
Sample Date	06 Jul 2023	31 Jan 2023	27 Aug 2022	---
Machine Hours	3195	1849	1084	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	NORMAL	NORMAL	---

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 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905
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 T:
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OIL CONDITION

Visc @ 40°C	cSt	264	238	163	---
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CONTAMINATION

Silicon	ppm	▲ 106	53	16	---
Sodium	ppm	0	2	0	---
Potassium	ppm	2	1	2	---



WEAR METALS

Iron	ppm	▲ 716	275	342	---
Copper	ppm	2	<1	<1	---
Lead	ppm	0	0	<1	---
Tin	ppm	0	<1	0	---
Aluminum	ppm	12	5	4	---
Chromium	ppm	▲ 21	12	7	---
Molybdenum	ppm	8	8	<1	---
Nickel	ppm	2	<1	0	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	<1	0	---
Manganese	ppm	7	4	6	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	142	113	30	---
Magnesium	ppm	32	33	1	---
Zinc	ppm	95	79	16	---
Phosphorus	ppm	1024	862	269	---
Barium	ppm	2	0	3	---
Boron	ppm	171	112	<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 ppm levels are severe. Iron ppm levels are abnormal. Gear wear is indicated. There is a moderate concentration of dirt present in the oil. 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: VOLVO0090
Unique No: 10551620
Signed: Angela Borella
Report Date: 13 Jul 2023

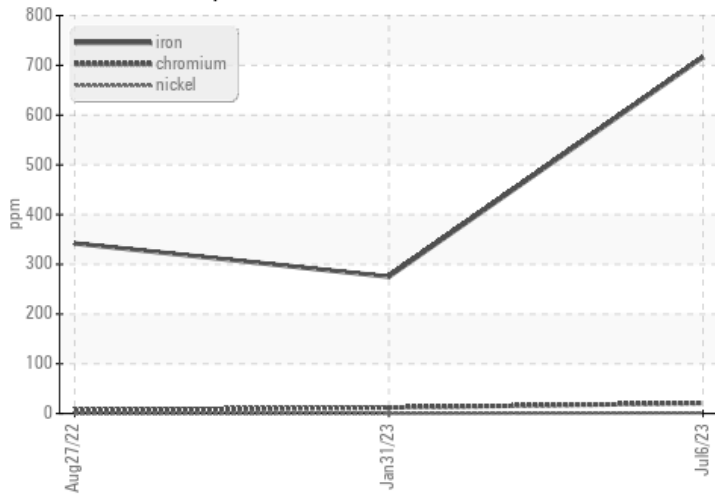


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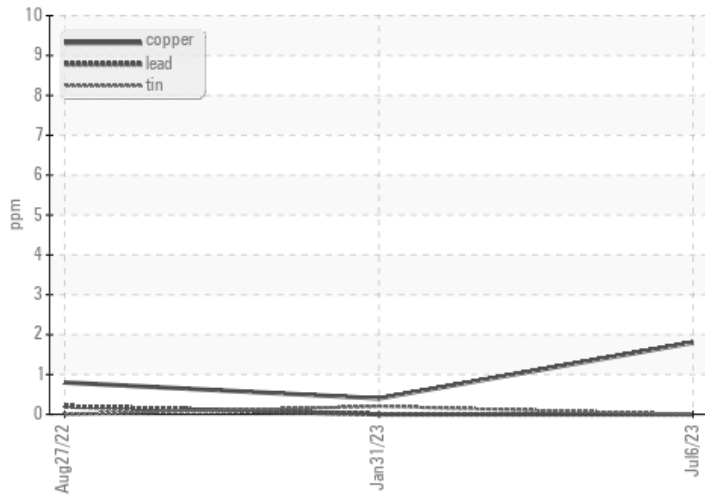


GRAPHS

▲ Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

