



CONSTRUCTION EQUIPMENT

646154 GERDAU SENNEBOGEN 825 3313 - REAR AXLE



Sample No: VCP434053
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 646154 GERDAU



SAMPLE INFORMATION

Sample Number	VCP434053	VCP403828	VCP362812	---
Sample Date	13 Dec 2023	12 Jan 2023	30 Mar 2022	---
Machine Hours	3721	2845	1924	---
Oil Hours	721	1000	1924	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	143	124	55.7	---
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CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	4	3	12	---
Sodium	ppm	4	9	16	---
Potassium	ppm	1	0	<1	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	84	42	33	---
Copper	ppm	4	5	7	---
Lead	ppm	0	0	<1	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	2	<1	2	---
Chromium	ppm	<1	<1	1	---
Molybdenum	ppm	0	<1	<1	---
Nickel	ppm	<1	0	<1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	3	1	2	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	157	414	3498	---
Magnesium	ppm	4	6	12	---
Zinc	ppm	102	200	1386	---
Phosphorus	ppm	1655	1251	1127	---
Barium	ppm	0	0	0	---
Boron	ppm	71	58	106	---

Depot: VOLVO2990
Unique No: 10794977
Signed: Wes Davis
Report Date: 20 Dec 2023

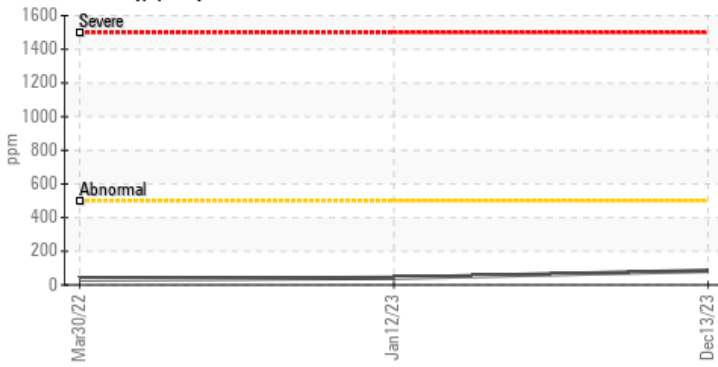


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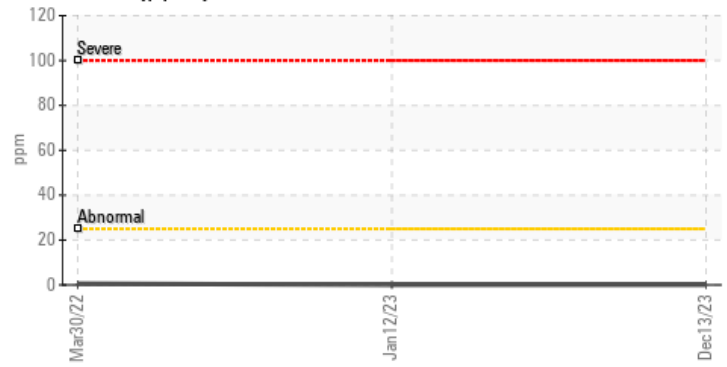


GRAPHS

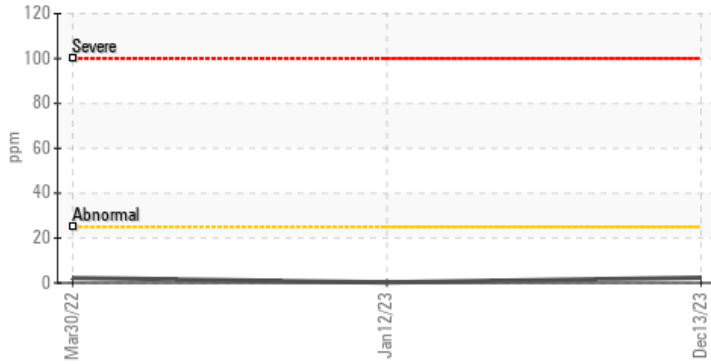
Iron (ppm)



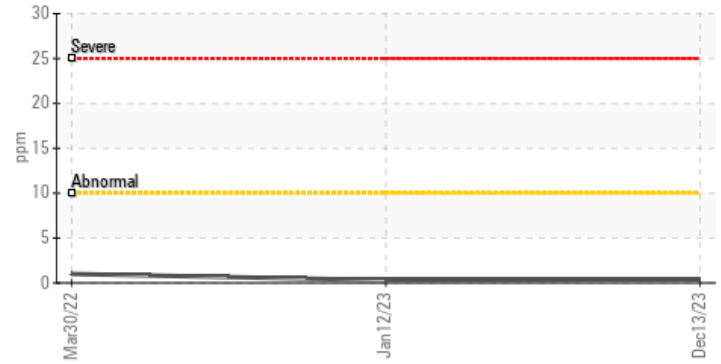
Lead (ppm)



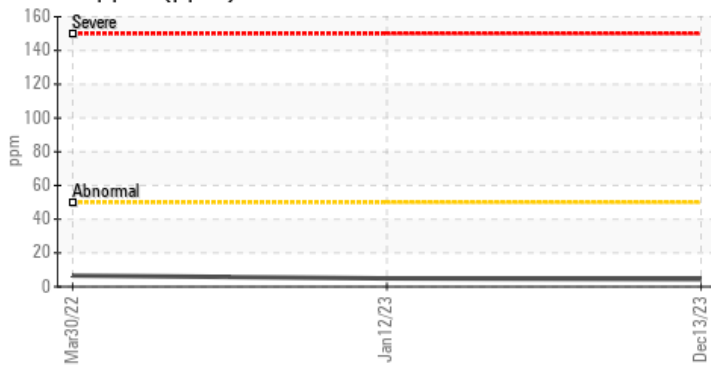
Aluminum (ppm)



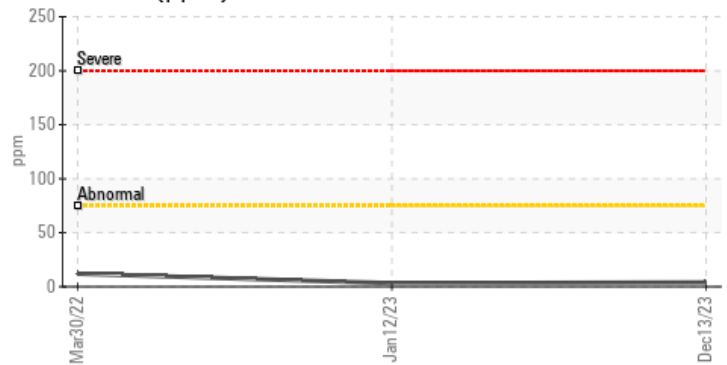
Chromium (ppm)



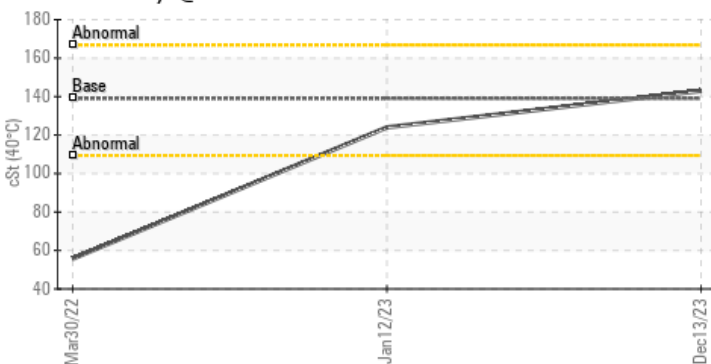
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

