



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area

[703489 IHFT]

Machine Id

SENNEBOGEN 830R 2296

Component

Rear Right Final Drive

Fluid

VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP454550	VCP431177	VCP399395
Sample Date		Client Info		24 May 2024	05 Dec 2023	09 Feb 2023
Machine Age	hrs	Client Info		3753	2444	619
Oil Age	hrs	Client Info		1000	1000	2000
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Not Changed	N/A	Not Changed
Sample Status				ABNORMAL	SEVERE	ABNORMAL

WEAR

The iron level has decreased, but is still abnormal. The copper level has decreased, but is still abnormal.

Iron	ppm	ASTM D5185m	>500	▲ 1176	▲ 3290	▲ 723
Chromium	ppm	ASTM D5185m	>10	7	▲ 23	5
Nickel	ppm	ASTM D5185m	>10	2	3	0
Titanium	ppm	ASTM D5185m		3	10	2
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	● 39	● 131	● 18
Lead	ppm	ASTM D5185m	>25	5	13	5
Copper	ppm	ASTM D5185m	>50	▲ 82	▲ 186	▲ 51
Tin	ppm	ASTM D5185m	>10	2	▲ 10	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	▲ HEAVY	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

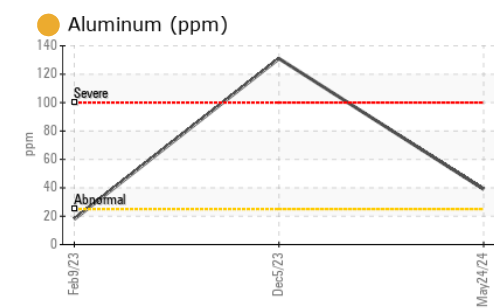
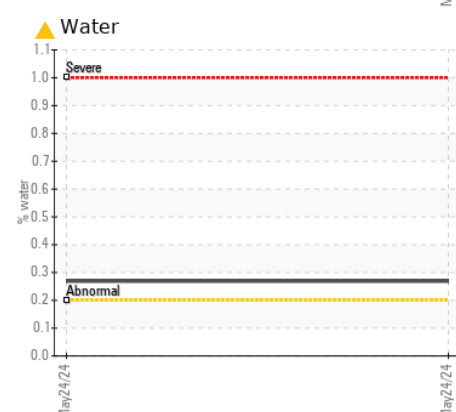
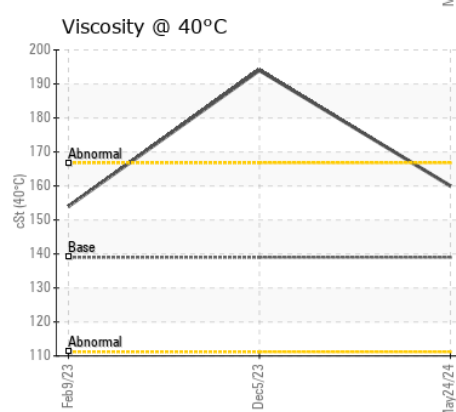
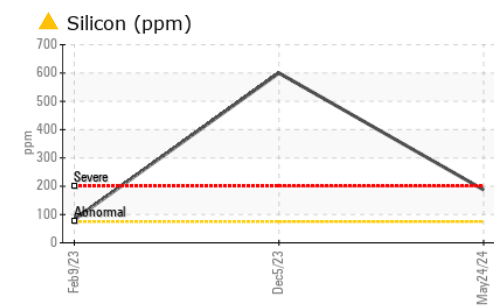
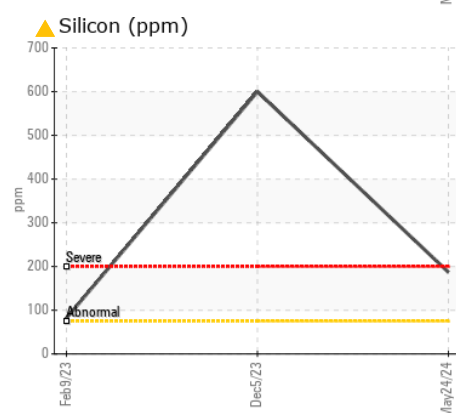
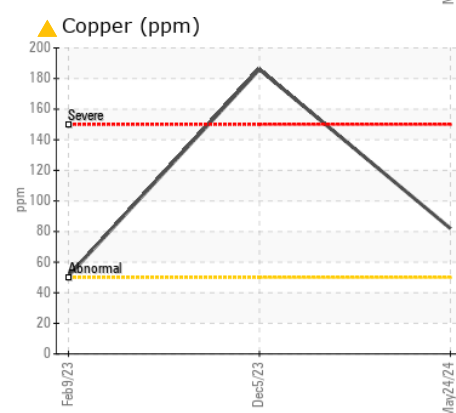
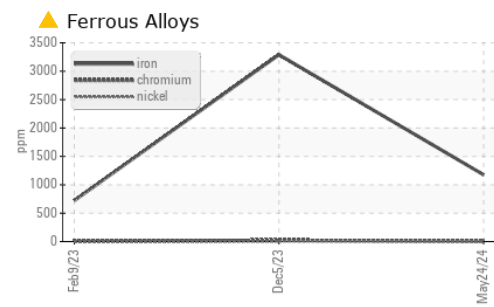
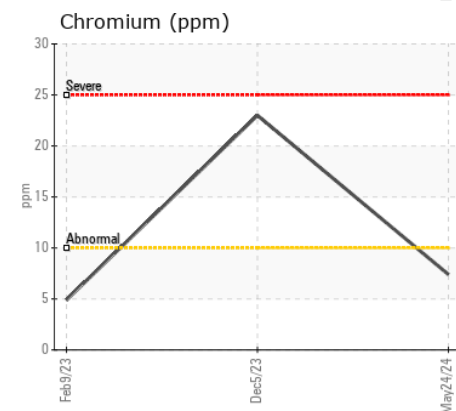
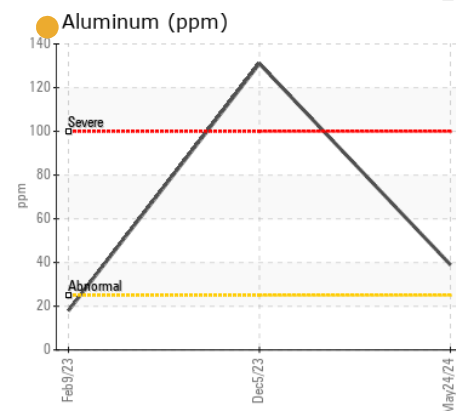
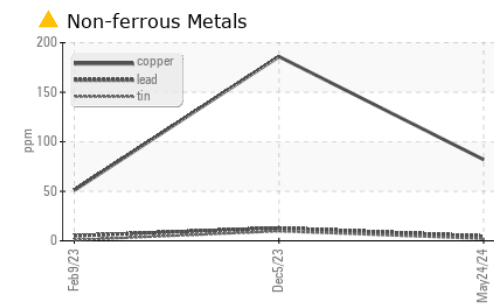
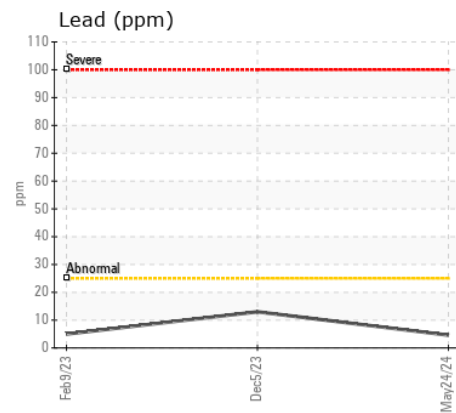
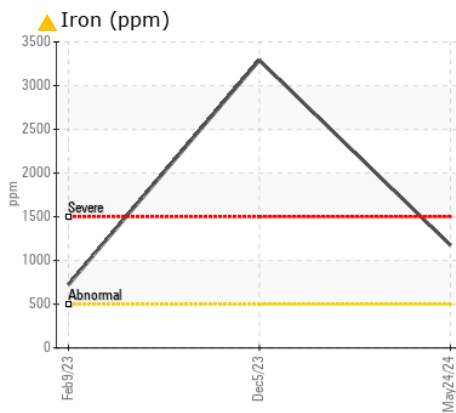
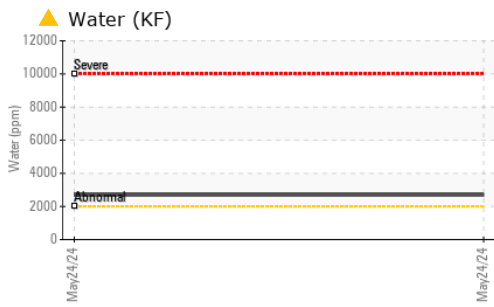
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>75	▲ 187	▲ 600	▲ 82
Potassium	ppm	ASTM D5185m	>20	10	28	4
Water	%	ASTM D6304	>0.2	▲ 0.269	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 2690	---	---
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		6	19	<1
Boron	ppm	ASTM D5185m	379	79	57	118
Barium	ppm	ASTM D5185m	0.0	0	<1	2
Molybdenum	ppm	ASTM D5185m	0.8	1	1	<1
Manganese	ppm	ASTM D5185m	0.0	14	37	7
Magnesium	ppm	ASTM D5185m	31	61	188	26
Calcium	ppm	ASTM D5185m	38	271	796	129
Phosphorus	ppm	ASTM D5185m	1077	1345	587	1778
Zinc	ppm	ASTM D5185m	46	32	43	13
Sulfur	ppm	ASTM D5185m	23526	22209	● 11862	15689
Visc @ 40°C	cSt	ASTM D445	139	160	194	● 154



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP454550 **Received** : 28 May 2024
Lab Number : 06192548 **Tested** : 30 May 2024
Unique Number : 11049300 **Diagnosed** : 30 May 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: KF)

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Certificate L2367
 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)