



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area

[703489 IHFT]

Machine Id

SENNEBOGEN 830R 2296

Component

Rear Left 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.

WEAR

The copper level has decreased, but is still abnormal. All other component wear rates are normal.

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.

FLUID CONDITION

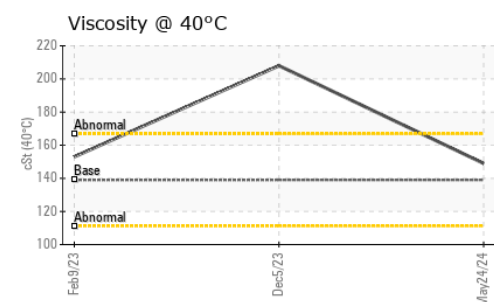
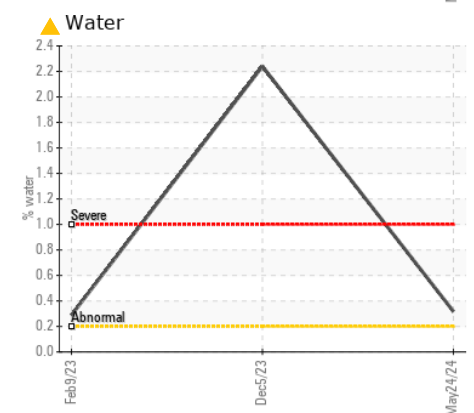
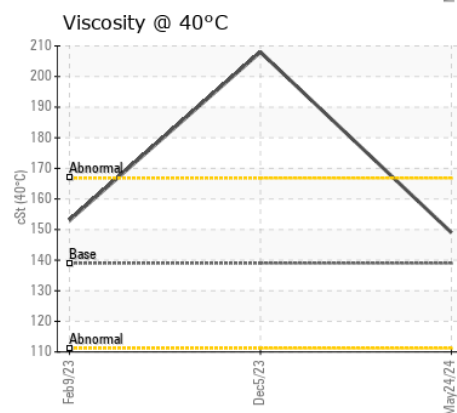
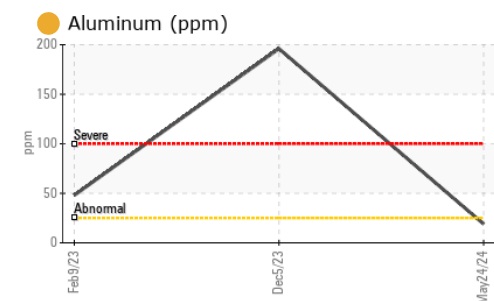
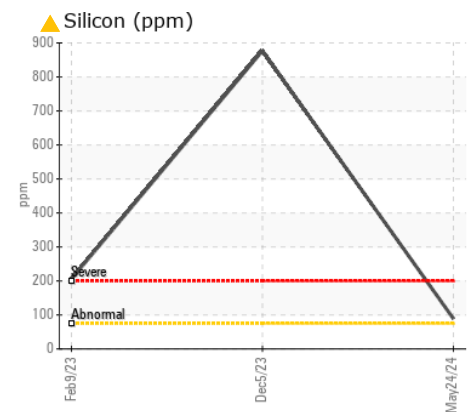
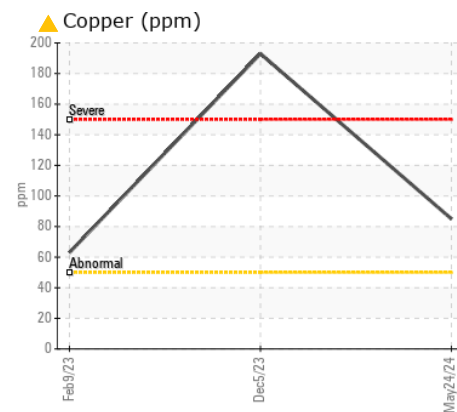
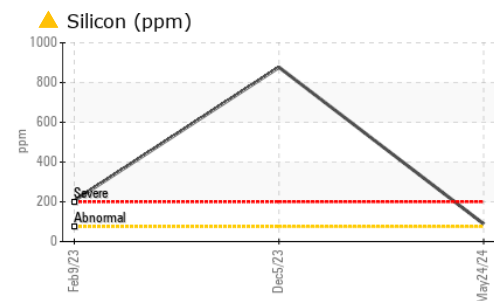
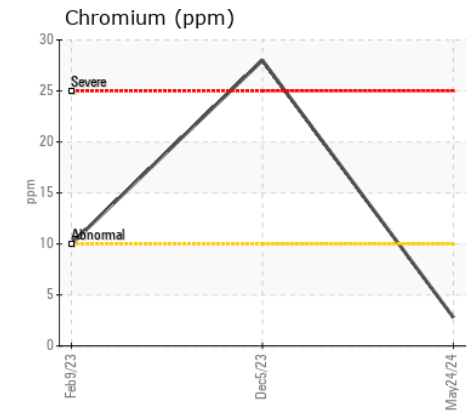
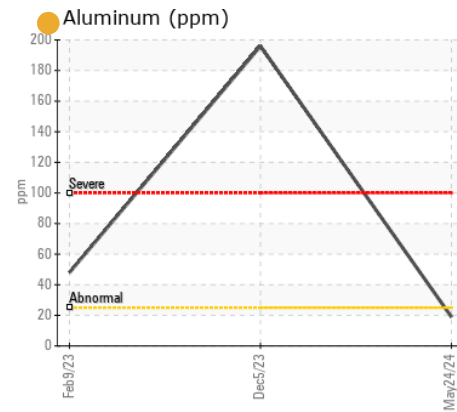
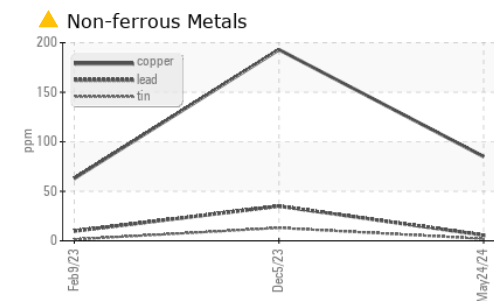
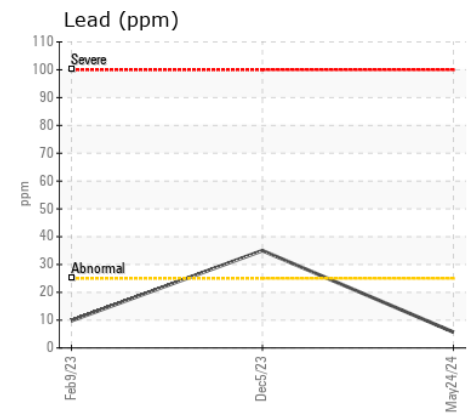
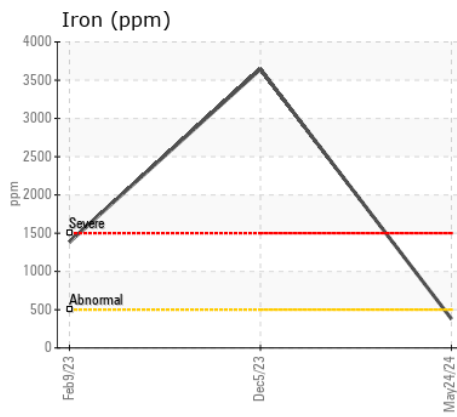
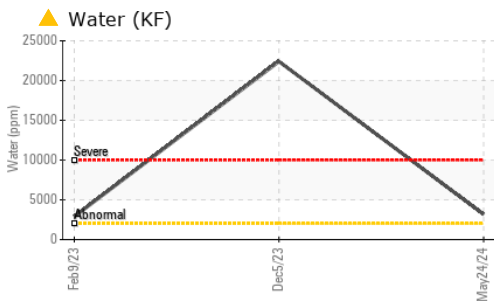
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP454549	VCP431176	VCP399394
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	Changed	Changed
Filter Changed		Client Info		Not Changed	Not Changed	Not Changed
Sample Status				ABNORMAL	SEVERE	ABNORMAL

Iron	ppm	ASTM D5185m	>500	380	▲ 3644	▲ 1384
Chromium	ppm	ASTM D5185m	>10	3	▲ 28	▲ 10
Nickel	ppm	ASTM D5185m	>10	<1	3	<1
Titanium	ppm	ASTM D5185m		2	15	4
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	● 19	● 196	● 48
Lead	ppm	ASTM D5185m	>25	6	▲ 35	10
Copper	ppm	ASTM D5185m	>50	▲ 85	▲ 193	▲ 63
Tin	ppm	ASTM D5185m	>10	2	▲ 13	1
Vanadium	ppm	ASTM D5185m		<1	1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>75	▲ 89	▲ 877	▲ 206
Potassium	ppm	ASTM D5185m	>20	5	44	11
Water	%	ASTM D6304	>0.2	▲ 0.318	▲ 2.24	▲ 0.289
ppm Water	ppm	ASTM D6304	>2000	▲ 3180	▲ 22400	▲ 2890
Silt	scalar	*Visual	NONE	MODER	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%	▲ 0.2%	0.2%

Sodium	ppm	ASTM D5185m		3	27	6
Boron	ppm	ASTM D5185m	379	37	59	131
Barium	ppm	ASTM D5185m	0.0	0	2	<1
Molybdenum	ppm	ASTM D5185m	0.8	<1	2	<1
Manganese	ppm	ASTM D5185m	0.0	6	45	14
Magnesium	ppm	ASTM D5185m	31	36	316	63
Calcium	ppm	ASTM D5185m	38	230	1392	313
Phosphorus	ppm	ASTM D5185m	1077	1107	517	1735
Zinc	ppm	ASTM D5185m	46	54	53	19
Sulfur	ppm	ASTM D5185m	23526	18376	12014	15535
Visc @ 40°C	cSt	ASTM D445	139	149	208	● 153



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP454549 **Received** : 28 May 2024
Lab Number : 06192547 **Tested** : 30 May 2024
Unique Number : 11049299 **Diagnosed** : 30 May 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: KF)

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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)