



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**[SPM702747 MIM]**  
 Machine Id  
**SENNEBOGEN 825M 825.0.3853**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP446132	VCP429077	VCP419510
Sample Date		Client Info		29 Apr 2024	10 Nov 2023	25 Jul 2023
Machine Age	hrs	Client Info		1073	1073	636
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	10	10	21
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	<1	2	1
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	1	3	15
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

## CONTAMINATION

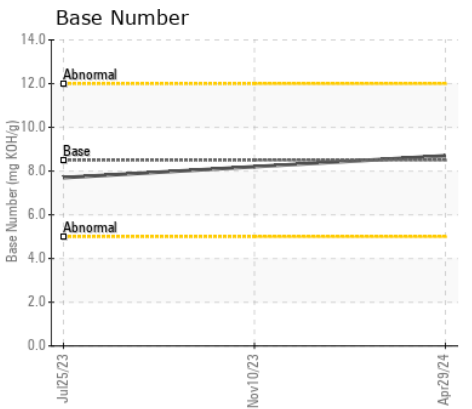
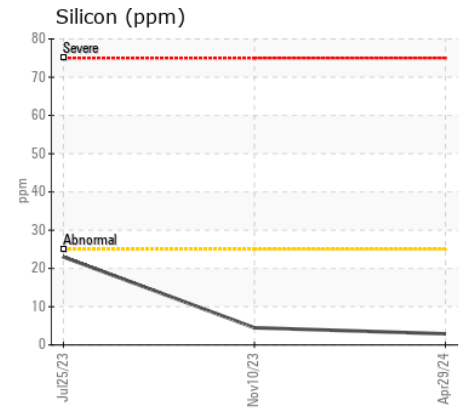
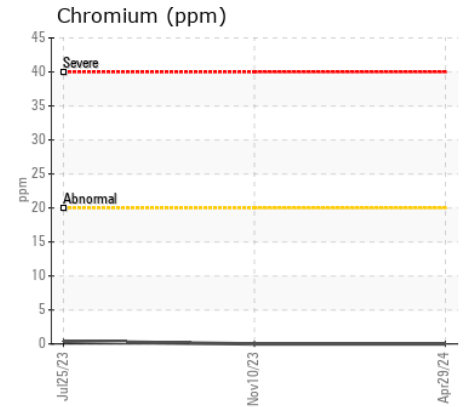
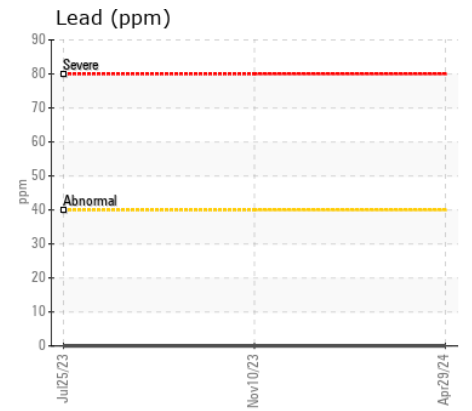
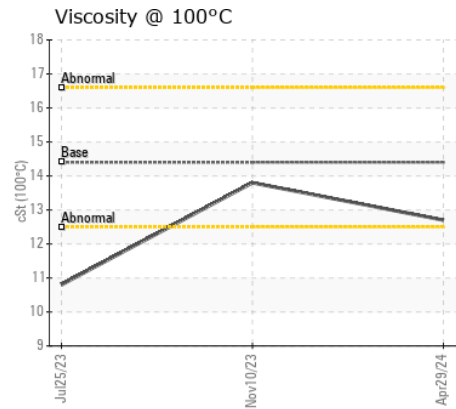
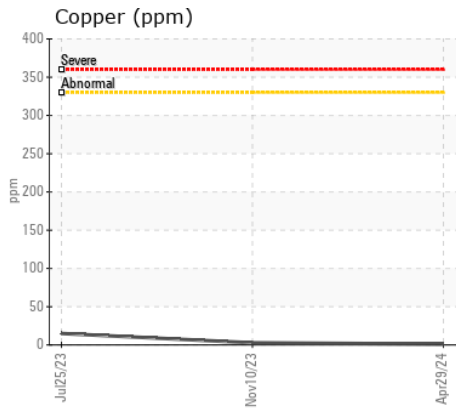
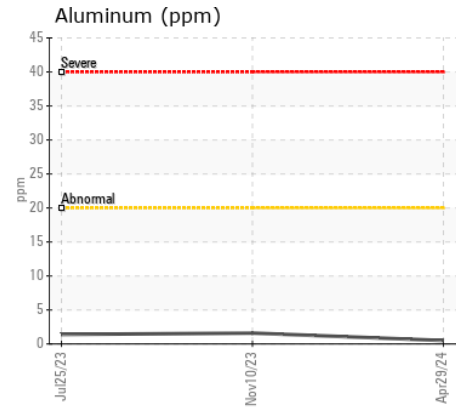
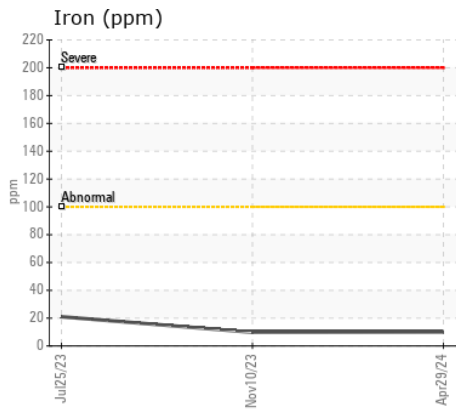
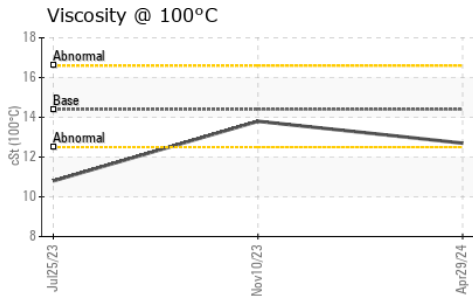
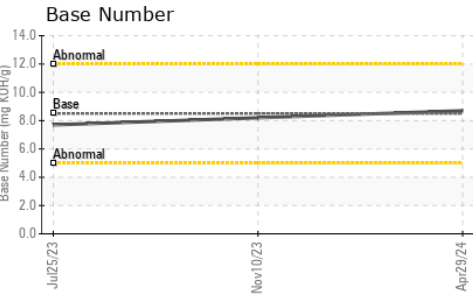
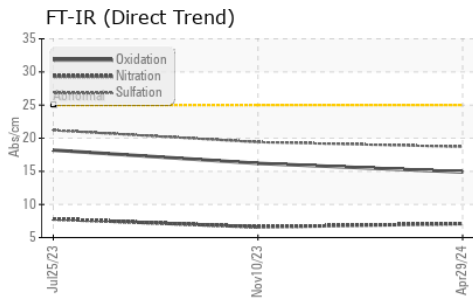
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	3	4	23
Potassium	ppm	ASTM D5185m	>20	0	2	2
Fuel		WC Method	>5	<1.0	<1.0	▲ 2.4
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.1	6.6	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	19.4	21.2
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	NEG	NEG	NEG

## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>158	2	0	0
Boron	ppm	ASTM D5185m	250	0	5	135
Barium	ppm	ASTM D5185m	10	0	0	7
Molybdenum	ppm	ASTM D5185m	100	60	67	64
Manganese	ppm	ASTM D5185m		<1	0	3
Magnesium	ppm	ASTM D5185m	450	1024	981	395
Calcium	ppm	ASTM D5185m	3000	1109	1161	1713
Phosphorus	ppm	ASTM D5185m	1150	1064	1098	975
Zinc	ppm	ASTM D5185m	1350	1254	1298	1181
Sulfur	ppm	ASTM D5185m	4250	3600	3338	3244
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	16.2	18.2
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.7	8.2	7.7
Visc @ 100°C	cSt	ASTM D445	14.4	12.7	13.8	▲ 10.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP446132 **Received** : 14 May 2024  
**Lab Number** : 06178295 **Tested** : 14 May 2024  
**Unique Number** : 11029621 **Diagnosed** : 14 May 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

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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)