



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Area

[MH-19]

Machine Id

SENNEBOGEN 825-M MH-19 (S/N 825-0-1284)

Component

Diesel Engine

Fluid

DURALENE Dura-Max 15W40 (5 GAL)

RECOMMENDATION

Oil and filter 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		DC0033554	DC0028796	DC0021545
Sample Date		Client Info		08 May 2024	18 Sep 2023	20 Oct 2022
Machine Age	hrs	Client Info		18314	17734	17095
Oil Age	hrs	Client Info		580	680	520
Filter Age	hrs	Client Info		580	680	520
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	16	18	18
Chromium	ppm	ASTM D5185m	>20	6	5	2
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	3	1	6
Lead	ppm	ASTM D5185m	>40	2	2	2
Copper	ppm	ASTM D5185m	>330	3	4	3
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

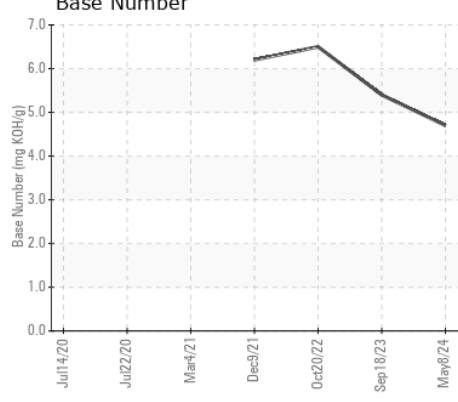
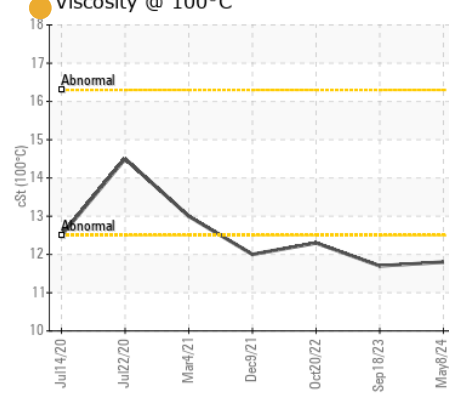
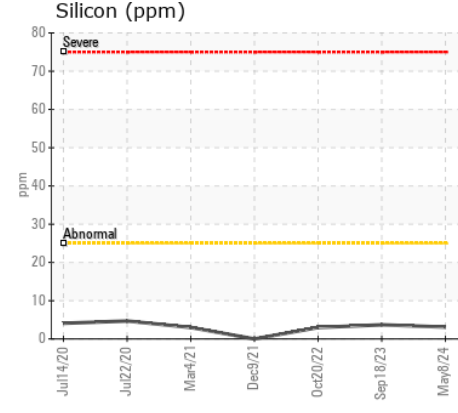
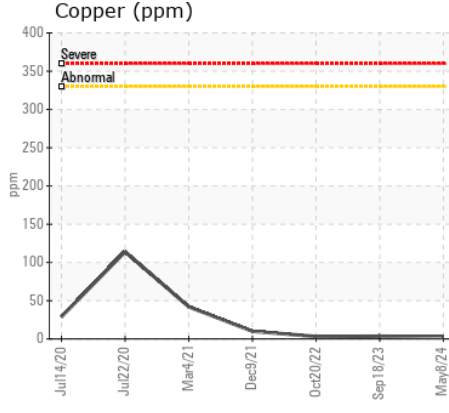
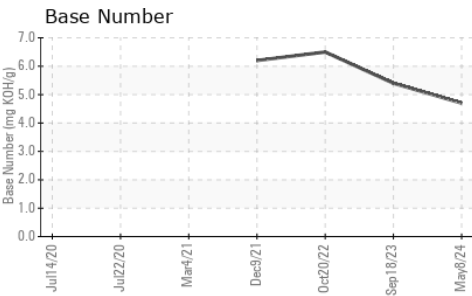
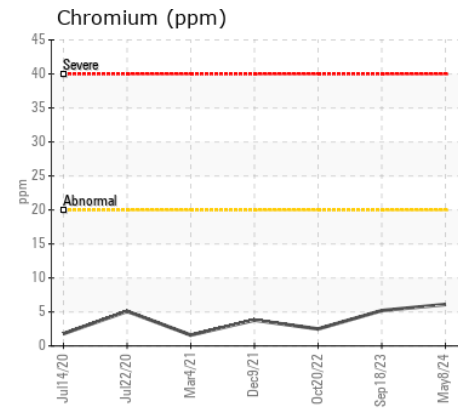
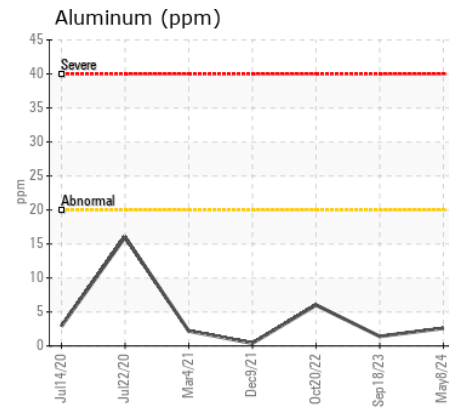
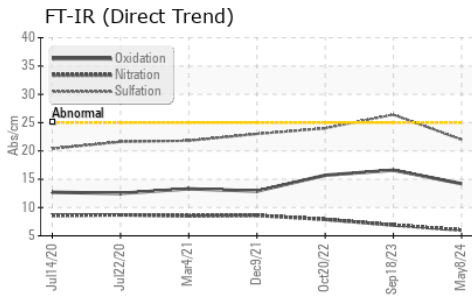
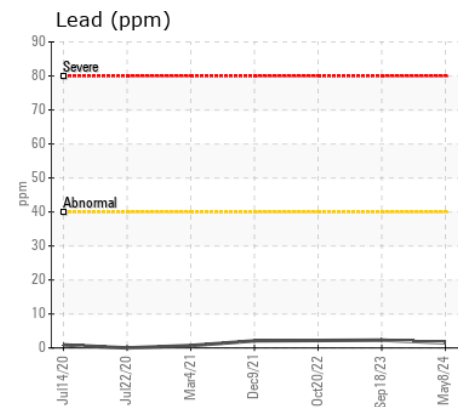
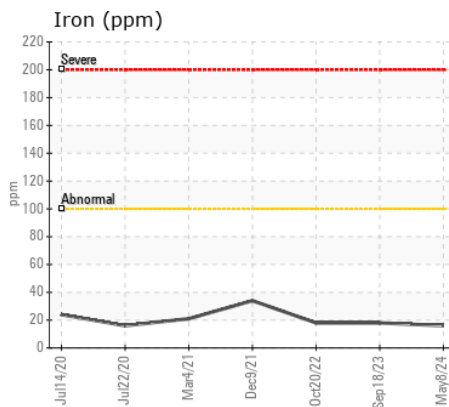
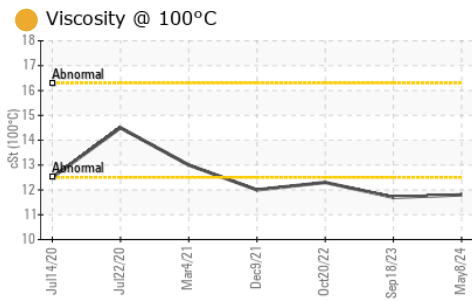
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	3	4	3
Potassium	ppm	ASTM D5185m	>20	3	2	2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.5	0	0.6
Nitration	Abs/cm	*ASTM D7624	>20	6.0	6.9	7.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	26.4	24.0
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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		<1	5	<1
Boron	ppm	ASTM D5185m		1	2	6
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	2	2
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		24	34	35
Calcium	ppm	ASTM D5185m		1576	1623	1836
Phosphorus	ppm	ASTM D5185m		618	600	669
Zinc	ppm	ASTM D5185m		744	717	833
Sulfur	ppm	ASTM D5185m		3230	3221	3525
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	16.6	15.7
Base Number (BN)	mg KOH/g	ASTM D2896		4.7	5.4	6.5
Visc @ 100°C	cSt	ASTM D445		11.8	11.7	12.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0033554 **Received** : 13 May 2024
Lab Number : 06178119 **Tested** : 14 May 2024
Unique Number : 11029445 **Diagnosed** : 15 May 2024 - Sean Felton
Test Package : MOB 1 (Additional Tests: TBN)

CONSERVIT INC.
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 US 21740
 Contact: DON LONG

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)

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