



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Machine Id
231145 SENNEBOGEN 835E 835.0.2081
 Component
Diesel Engine
 Fluid
MOBIL FLEET 15W40 (8 GAL)

RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ001836	DJJ002248	DJJ009768
Sample Date		Client Info		16 Apr 2024	09 Jan 2024	06 Dec 2023
Machine Age	hrs	Client Info		15640	15375	15269
Oil Age	hrs	Client Info		371	106	523
Filter Age	hrs	Client Info		371	106	523
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				SEVERE	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	23	13	57
Chromium	ppm	ASTM D5185m	>20	1	<1	2
Nickel	ppm	ASTM D5185m	>4	<1	0	1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	3	2	5
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	2	<1	3
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

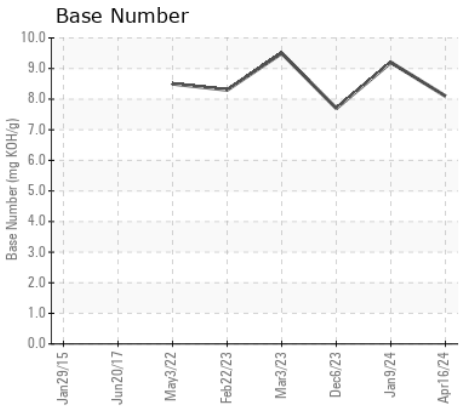
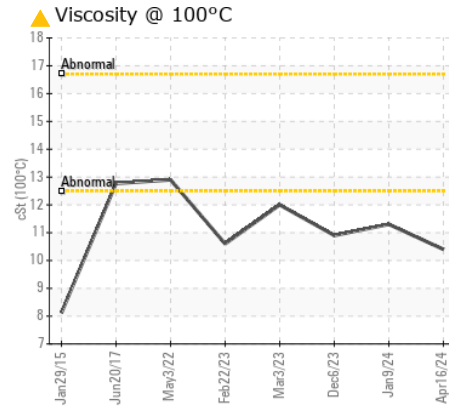
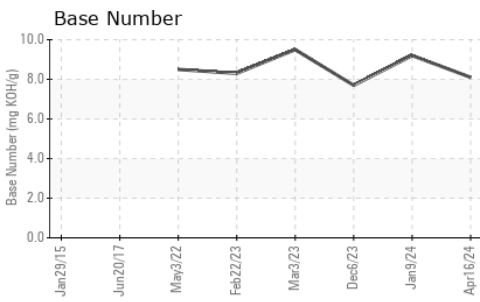
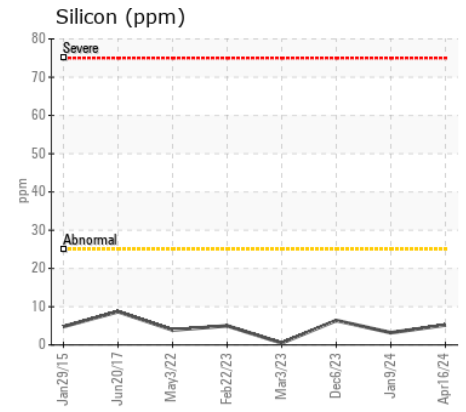
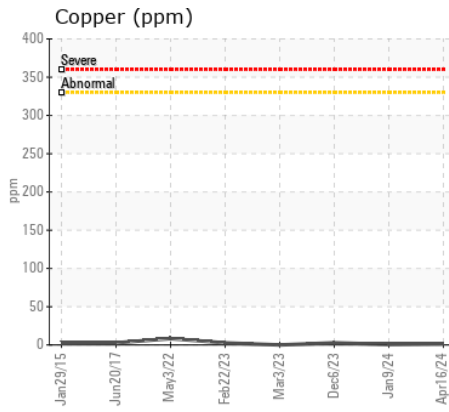
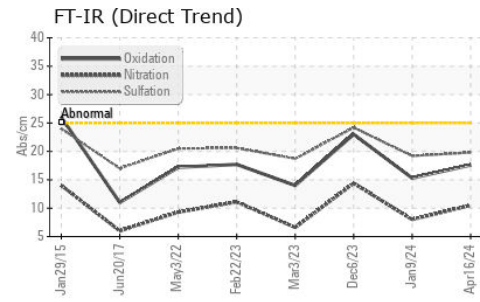
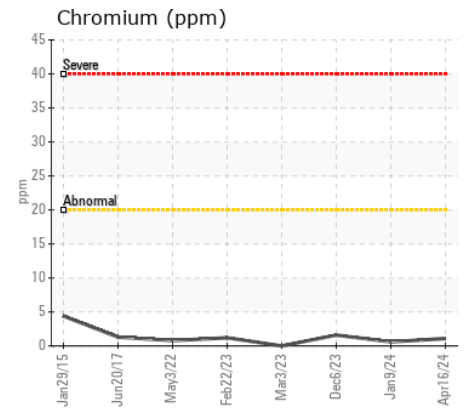
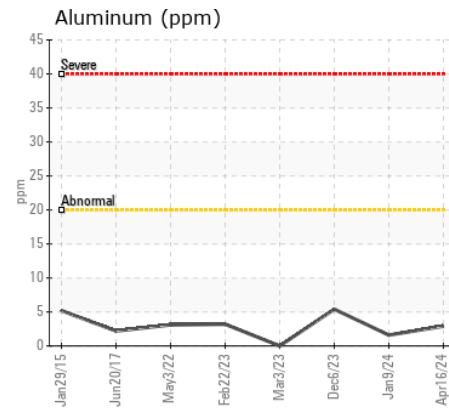
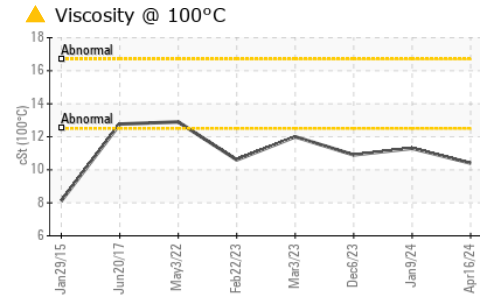
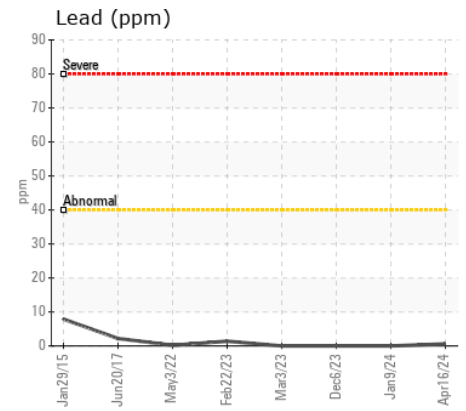
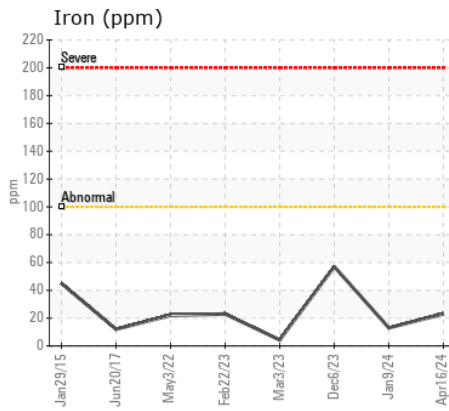
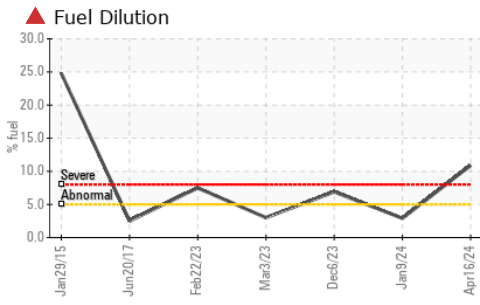
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185m	>25	5	3	6
Potassium	ppm	ASTM D5185m	>20	2	2	2
Fuel	%	ASTM D3524	>5	▲ 10.9	▲ 2.9	▲ 6.9
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.5	0.3	1
Nitration	Abs/cm	*ASTM D7624	>20	10.5	8.0	14.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	19.2	24.2
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. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		<1	<1	2
Boron	ppm	ASTM D5185m		6	12	5
Barium	ppm	ASTM D5185m		2	0	<1
Molybdenum	ppm	ASTM D5185m		72	57	72
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		838	834	843
Calcium	ppm	ASTM D5185m		1054	1143	1043
Phosphorus	ppm	ASTM D5185m		935	990	951
Zinc	ppm	ASTM D5185m		1127	1179	1161
Sulfur	ppm	ASTM D5185m		2988	3158	2748
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.6	15.3	23.0
Base Number (BN)	mg KOH/g	ASTM D2896		8.1	9.2	7.7
Visc @ 100°C	cSt	ASTM D445		▲ 10.4	▲ 11.3	▲ 10.9



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DJJ001836 **Received** : 26 Apr 2024
Lab Number : 06161278 **Tested** : 30 Apr 2024
Unique Number : 10996701 **Diagnosed** : 30 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)
 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)

TEXAS PORT RECYCLING - PINEMONT
 4400 PINEMONT DRIVE
 HOUSTON, TX
 US 77018
 Contact: Rusty Trask
 rgt@texasportrecycling.com
 T:
 F: (713)686-1004