



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

**[05W47986]**

Machine Id

**SENNEBOGEN 875 875.5.1066**

Component

**Diesel Engine**

Fluid

**CASTROL 10W30 (13 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0225529</b>	JR0153370	JR0196051
Sample Date		Client Info		<b>08 Jul 2024</b>	20 Mar 2024	20 Feb 2024
Machine Age	hrs	Client Info		<b>4001</b>	3816	3723
Oil Age	hrs	Client Info		<b>185</b>	50	0
Filter Age	hrs	Client Info		<b>185</b>	50	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>12</b>	10	30
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	2	2
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	3	12
Lead	ppm	ASTM D5185m	>40	<b>0</b>	2	2
Copper	ppm	ASTM D5185m	>330	<b>2</b>	1	1
Tin	ppm	ASTM D5185m	>15	<b>0</b>	1	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

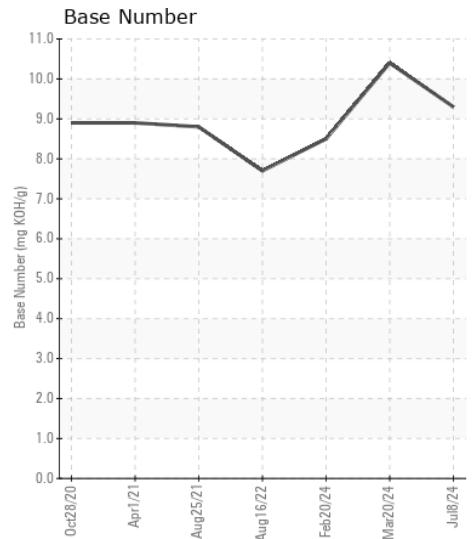
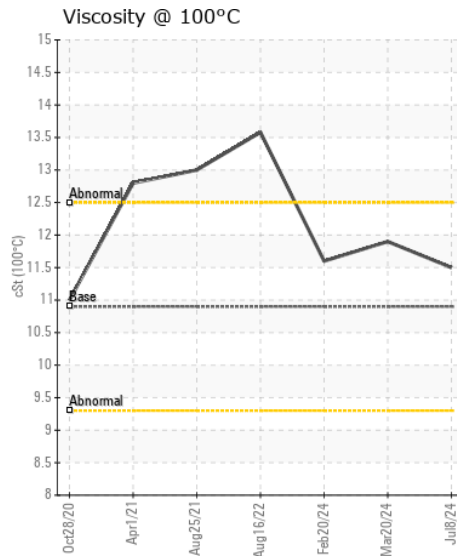
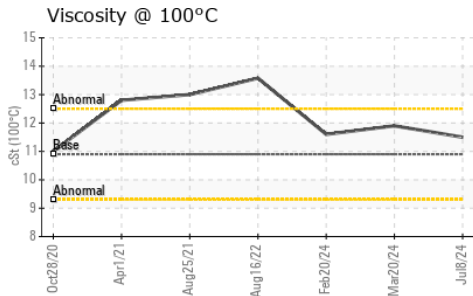
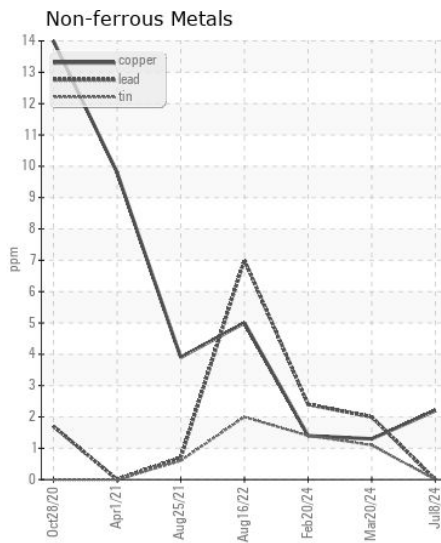
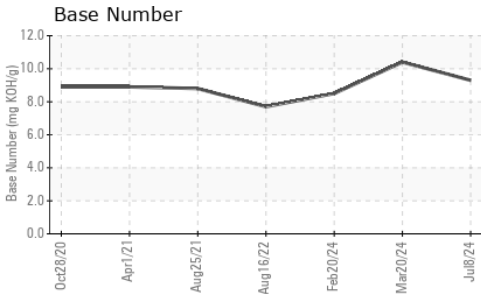
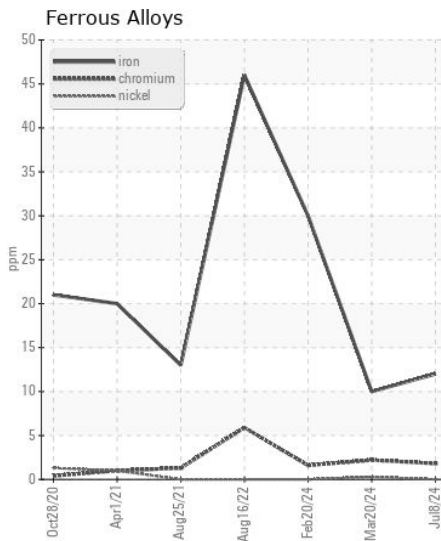
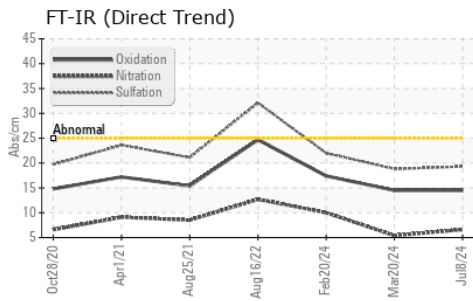
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>15</b>	24	7
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	3	15
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.5</b>	0.2	0.8
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.6</b>	5.4	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.3</b>	18.8	22.0
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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		<b>4</b>	3	1
Boron	ppm	ASTM D5185m		<b>112</b>	165	62
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>66</b>	71	90
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>1128</b>	1210	1180
Calcium	ppm	ASTM D5185m		<b>1027</b>	1121	1067
Phosphorus	ppm	ASTM D5185m		<b>1128</b>	1299	1113
Zinc	ppm	ASTM D5185m		<b>1301</b>	1422	1402
Sulfur	ppm	ASTM D5185m		<b>4007</b>	4248	3421
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.5</b>	14.5	17.4
Base Number (BN)	mg KOH/g	ASTM D2896		<b>9.3</b>	10.4	8.5
Visc @ 100°C	cSt	ASTM D445	10.9	<b>11.5</b>	11.9	11.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0225529 **Received** : 09 Jul 2024  
**Lab Number** : 06231313 **Tested** : 10 Jul 2024  
**Unique Number** : 11114806 **Diagnosed** : 10 Jul 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: TBN )

**JRE - MANASSAS PARK**  
 9107 OWENS DRIVE  
 MANASSAS PARK, VA  
 US 20111  
 Contact: DON VEST  
 dvest@jamesriverequipment.com  
 T: (703)631-8500  
 F: (703)631-4715

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)