



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[05W47986]

Machine Id
SENNEBOGEN 875 875.5.1066

Component
Hydraulic System

Fluid
SHELL TELLUS 46 (500 GAL)

RECOMMENDATION

No corrective action is recommended at this time. The 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		JR0225528	JR0139951	JR0095503
Sample Date		Client Info		08 Jul 2024	16 Aug 2022	25 Aug 2021
Machine Age	hrs	Client Info		4001	2203	1129
Oil Age	hrs	Client Info		4001	2203	1129
Filter Age	hrs	Client Info		2000	2203	0
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Not Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

Moderate concentration of visible metal present. All component wear rates are normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		22	11	24
Iron	ppm	ASTM D5185m	>20	9	5	3
Chromium	ppm	ASTM D5185m	>10	6	0	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	1	0
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m	>10	2	2	<1
Lead	ppm	ASTM D5185m	>10	1	<1	1
Copper	ppm	ASTM D5185m	>75	5	4	3
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	▲ MODER	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

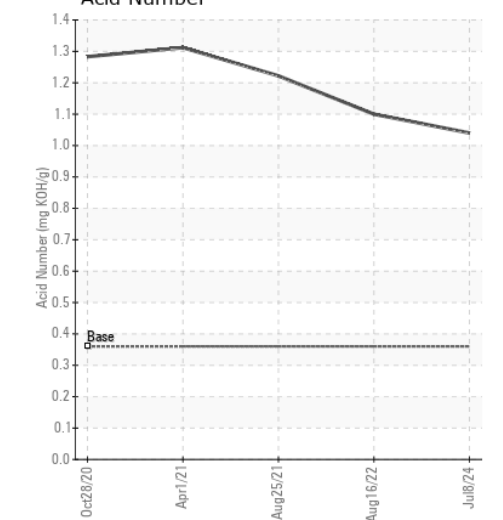
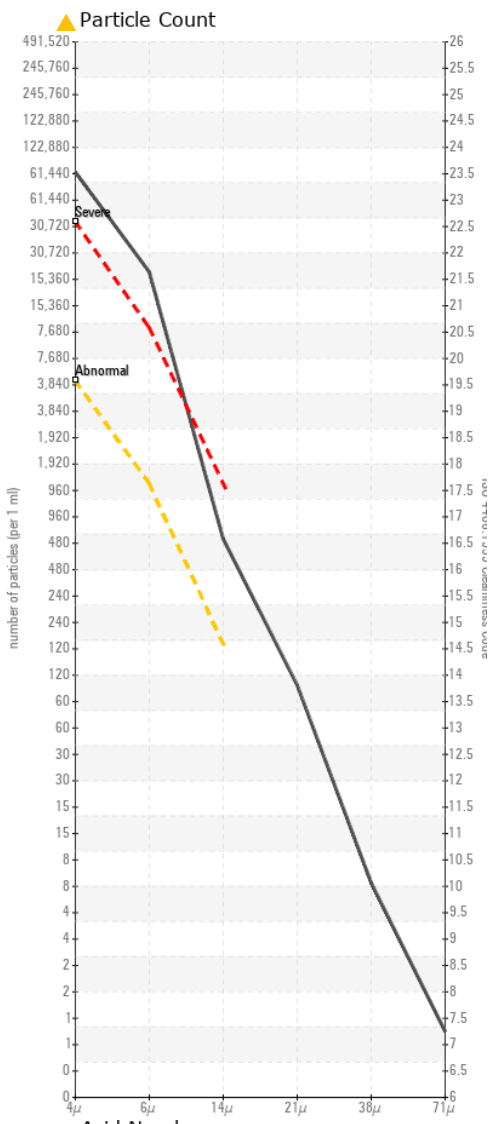
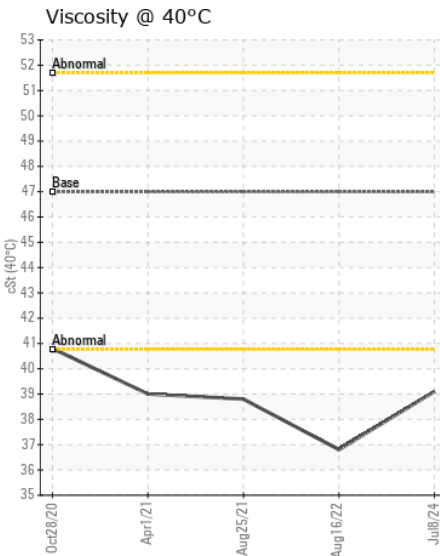
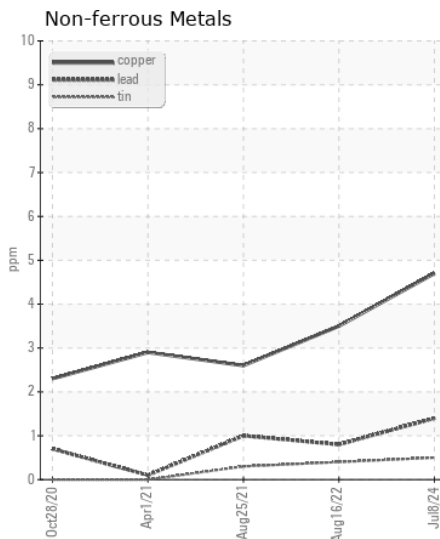
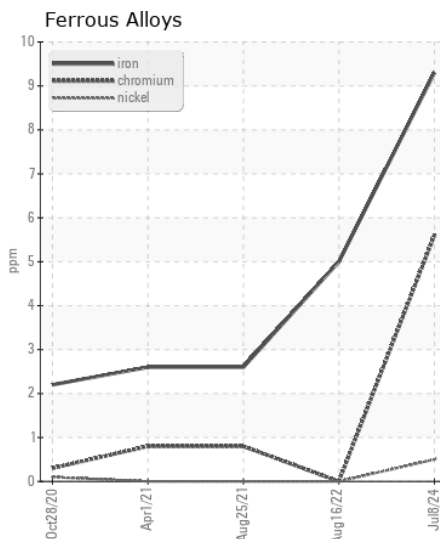
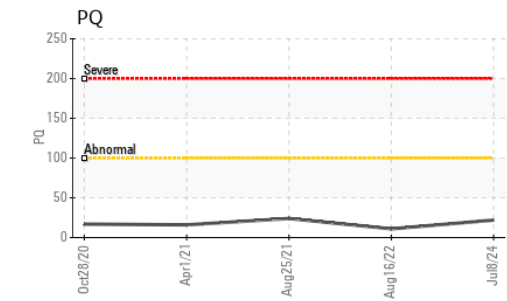
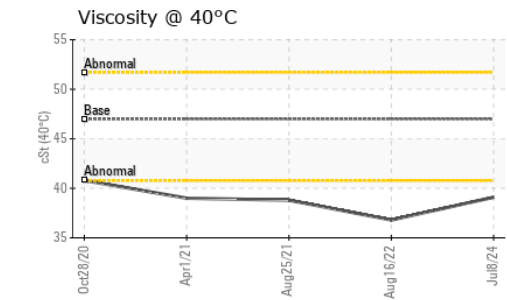
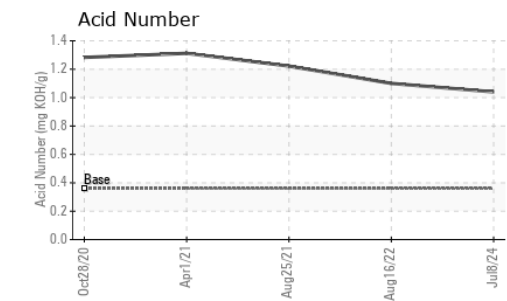
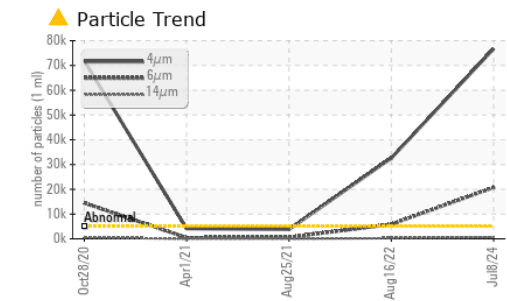
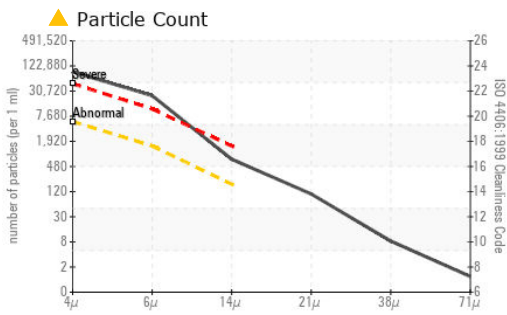
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	2	5	<1
Potassium	ppm	ASTM D5185m	>20	3	0	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 76777	▲ 32615	3781
Particles >6µm		ASTM D7647	>1300	▲ 20728	▲ 5844	625
Particles >14µm		ASTM D7647	>160	▲ 630	▲ 259	33
Particles >21µm		ASTM D7647	>40	▲ 93	▲ 51	8
Particles >38µm		ASTM D7647	>10	7	4	2
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 23/22/16	▲ 22/20/15	19/16/12
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	>0.1	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		5	2	3
Boron	ppm	ASTM D5185m	0.0	0	63	3
Barium	ppm	ASTM D5185m	0	<1	<1	0
Molybdenum	ppm	ASTM D5185m	0	<1	23	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	11	6	146	5
Calcium	ppm	ASTM D5185m	35	1398	1026	1189
Phosphorus	ppm	ASTM D5185m	266	644	571	563
Zinc	ppm	ASTM D5185m	276	707	629	631
Sulfur	ppm	ASTM D5185m	1847	4176	3551	3418
Acid Number (AN)	mg KOH/g	ASTM D8045	0.36	1.04	1.10	1.222
Visc @ 40°C	cSt	ASTM D445	46.99	39.1	36.8	38.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0225528 **Received** : 09 Jul 2024
Lab Number : 06231424 **Tested** : 10 Jul 2024
Unique Number : 11114917 **Diagnosed** : 10 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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)

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