OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
AMR-St Louis
Machine Id
574279 SENNEBOGEN 840M 840.0.2075
Component
Hydraulic System
Fluid
SHELL AW HYDRAULIC S2 46 (--- GAL)

RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

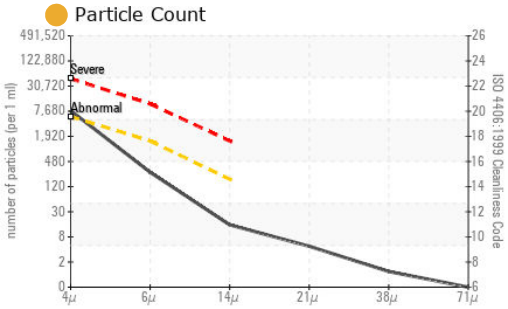
CONTAMINATION

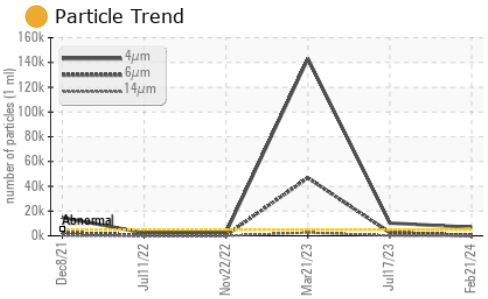
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

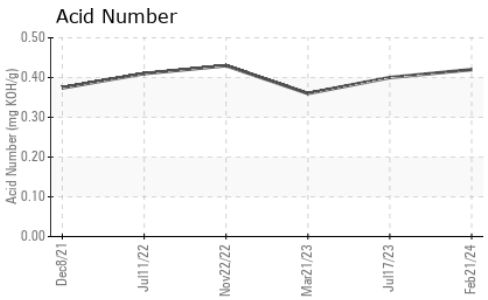
FLUID CONDITION

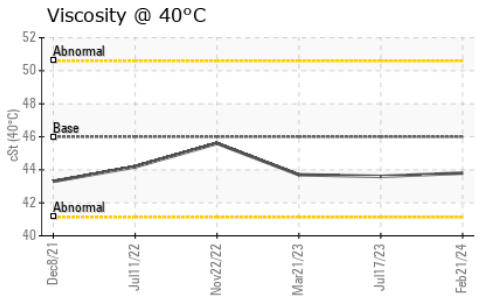
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

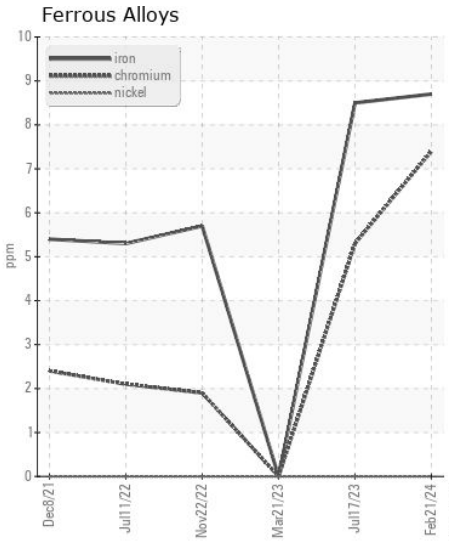
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ0020989	DJJ0019274	DJJ0012786
Sample Date		Client Info		21 Feb 2024	17 Jul 2023	21 Mar 2023
Machine Age	hrs	Client Info		11891	10842	10282
Oil Age	hrs	Client Info		2000	1000	0
Filter Age	hrs	Client Info		1000	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>20	9	8	0
Chromium	ppm	ASTM D5185m	>10	7	5	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	<1	0
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>75	1	1	0
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	1	1	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	6907	▲ 10306	▲ 142990
Particles >6µm		ASTM D7647	>1300	233	▲ 2605	▲ 46823
Particles >14µm		ASTM D7647	>160	13	135	▲ 2577
Particles >21µm		ASTM D7647	>40	4	25	▲ 496
Particles >38µm		ASTM D7647	>10	1	1	▲ 30
Particles >71µm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/15/11	▲ 21/19/14	▲ 24/23/19
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
Sodium	ppm	ASTM D5185m		4	1	0
Boron	ppm	ASTM D5185m		<1	0	0
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		<1	1	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		53	58	9
Calcium	ppm	ASTM D5185m		122	60	● <1
Phosphorus	ppm	ASTM D5185m		295	291	● 7
Zinc	ppm	ASTM D5185m		372	359	● 5
Sulfur	ppm	ASTM D5185m		787	848	● 0
Acid Number (AN)	mg KOH/g	ASTM D8045		0.42	0.40	0.36
Visc @ 40°C	cSt	ASTM D445	46	43.8	43.6	43.7

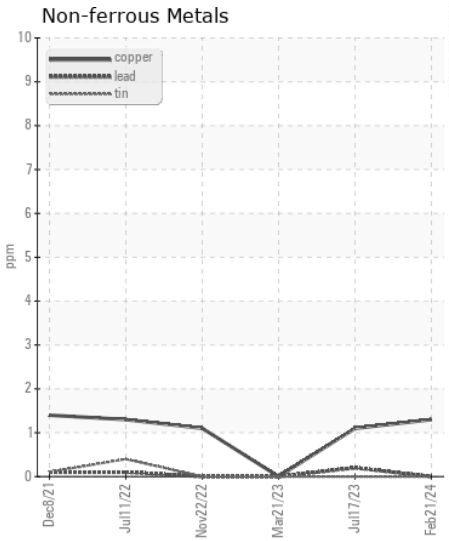


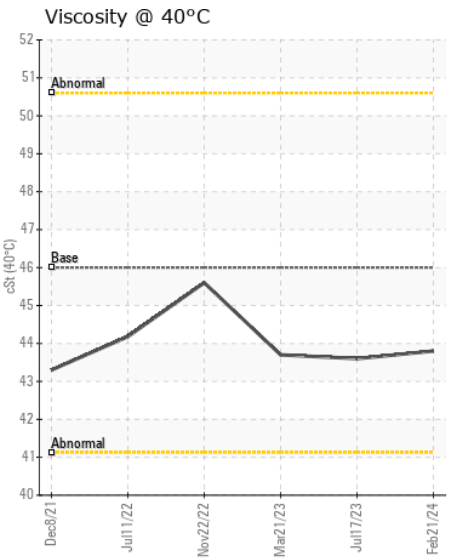


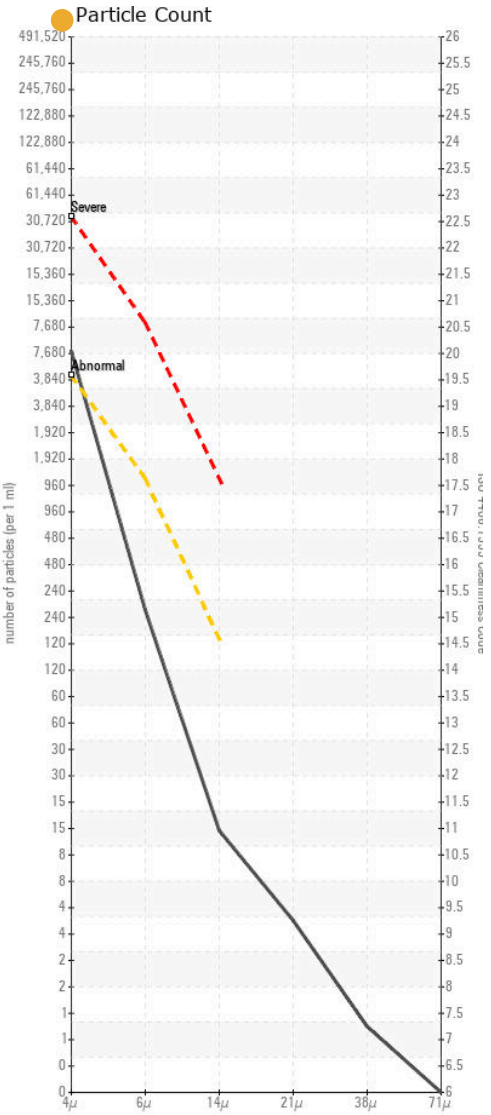


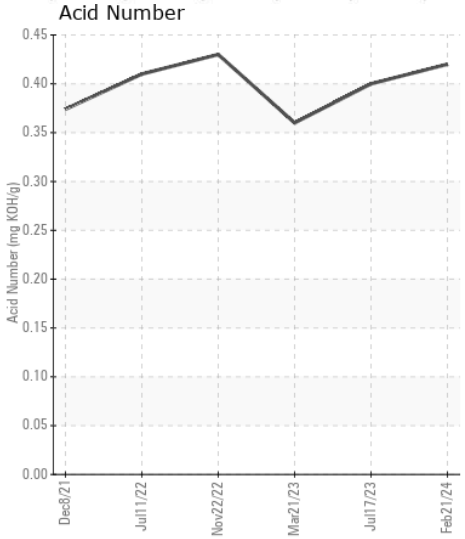












Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: DJJ0020989	**Received**	: 29 Feb 2024
Lab Number	: 06105126	**Tested**	: 01 Mar 2024
Unique Number	: 10903356	**Diagnosed**	: 01 Mar 2024 - Wes Davis
Test Package	: MOBCE		

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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