



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
CAE MOOG S30
Component
Hydraulic System
Fluid
SHELL TELLUS S3 M 46 (450 GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ST42660	ST37117	ST37121
Sample Date		Client Info		26 Oct 2021	21 Feb 2021	17 Oct 2020
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		5000	5000	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>40	<1	0	0
Chromium	ppm	ASTM D5185m	>4	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>4	0	0	0
Lead	ppm	ASTM D5185m	>10	<1	<1	1
Copper	ppm	ASTM D5185m	>60	2	1	1
Tin	ppm	ASTM D5185m	>4	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

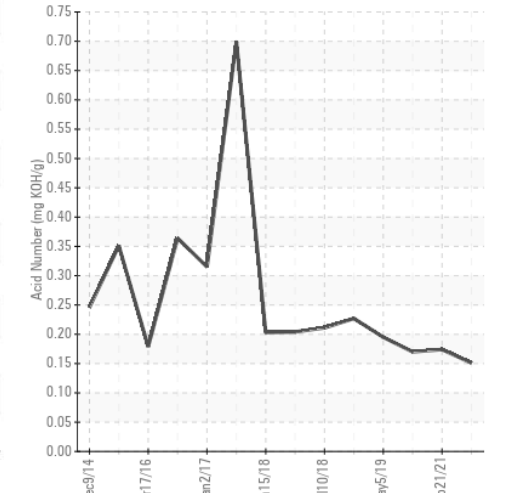
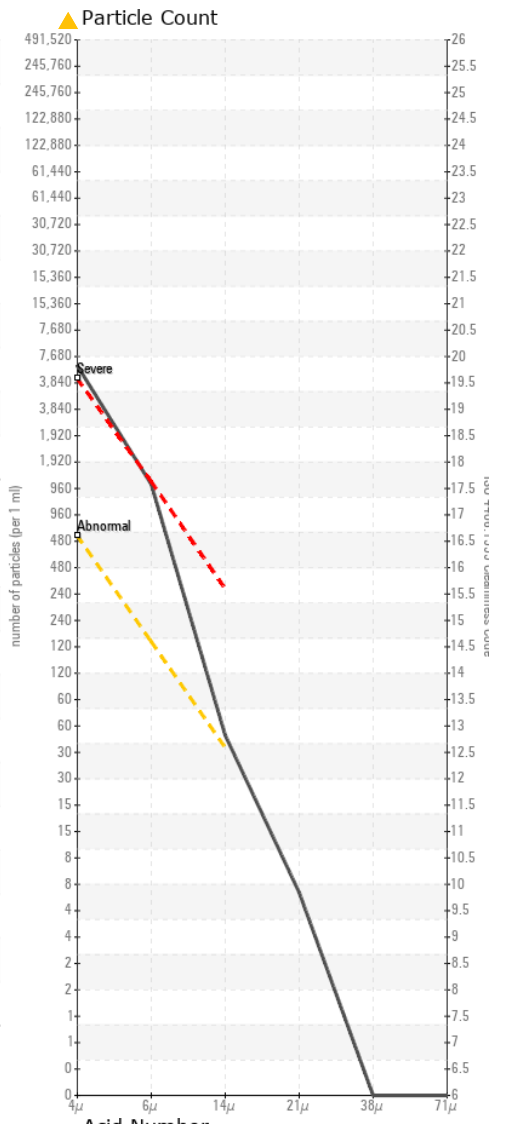
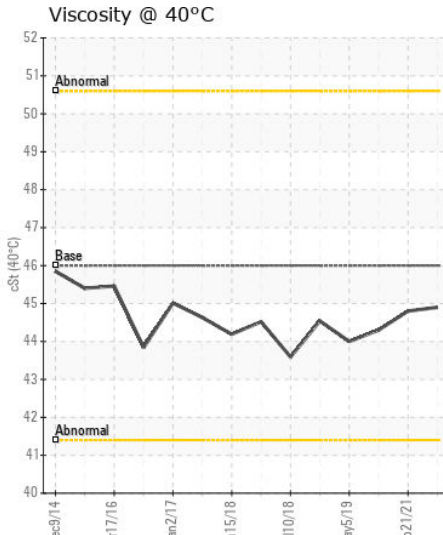
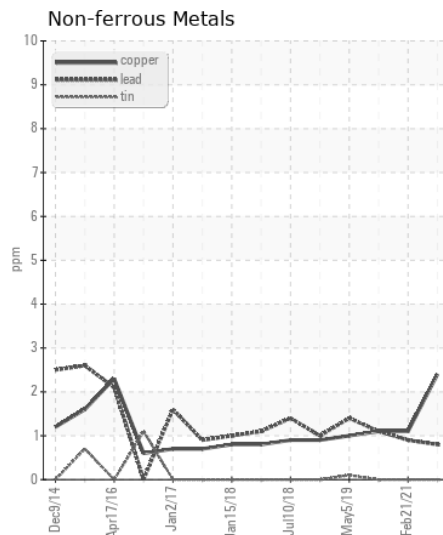
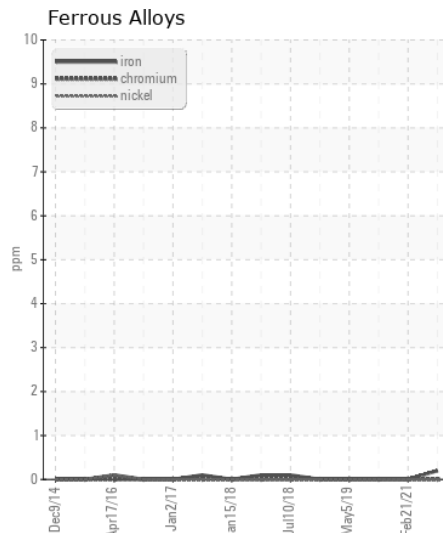
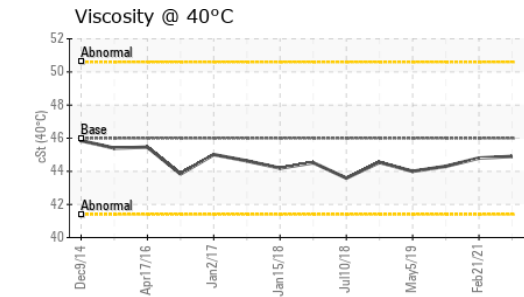
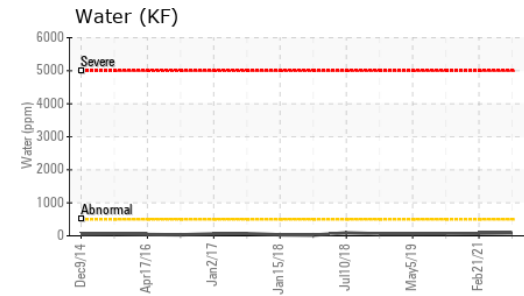
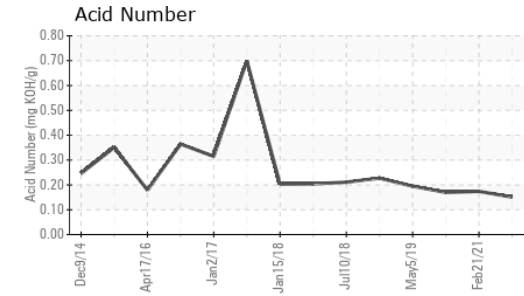
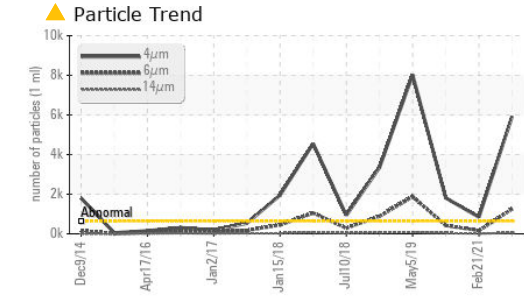
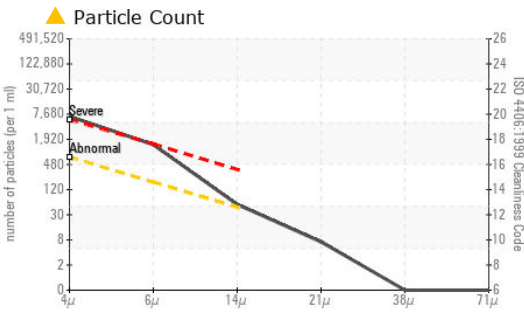
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>0.05	0.008	0.007	0.006
ppm Water	ppm	ASTM D6304	>500	88.2	70.9	65.0
Particles >4µm		ASTM D7647	>640	▲ 5922	▲ 841	▲ 1811
Particles >6µm		ASTM D7647	>160	▲ 1255	▲ 161	▲ 420
Particles >14µm		ASTM D7647	>40	▲ 47	12	▲ 36
Particles >21µm		ASTM D7647	>10	6	4	9
Particles >38µm		ASTM D7647	>3	0	0	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>16/14/12	▲ 20/17/13	▲ 17/15/11	▲ 18/16/12
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	>0.05	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<1	<1	0
Boron	ppm	ASTM D5185m	0	2	1	<1
Barium	ppm	ASTM D5185m	3	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	0	8	8	9
Calcium	ppm	ASTM D5185m	0	24	25	23
Phosphorus	ppm	ASTM D5185m	106	229	233	230
Zinc	ppm	ASTM D5185m	0	175	166	184
Sulfur	ppm	ASTM D5185m		2640	1587	1757
Acid Number (AN)	mg KOH/g	ASTM D8045		0.151	0.174	0.170
Visc @ 40°C	cSt	ASTM D445	46.0	44.9	44.8	44.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ST42660 **Received** : 10 Nov 2021
Lab Number : 05397592 **Diagnosed** : 11 Nov 2021
Unique Number : 9736742 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF)

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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