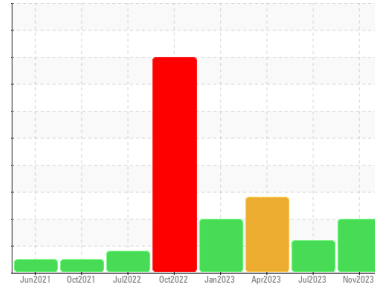




PROBLEM SUMMARY

Sample Rating Trend



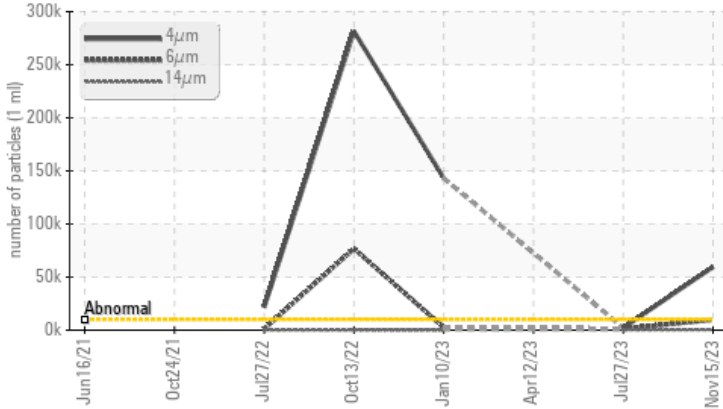
ISO



Area
COLD MILL/CM-3STD-2N
 Machine Id
S3 EAST MOTOR BEARING 3ST2_S3 East Motor Bearing
 Component
Bearing
 Fluid
ROYAL PURPLE SYNFILM GT 68 (50 GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ATTENTION	ABNORMAL
Particles >4µm	ASTM D7647	>10000	▲ 59558	2157	---
Particles >6µm	ASTM D7647	>2500	▲ 9855	1175	---
Particles >14µm	ASTM D7647	>160	▲ 421	▲ 200	---
Particles >21µm	ASTM D7647	>40	▲ 85	▲ 67	---
Oil Cleanliness	ISO 4406 (c)	>20/18/14	▲ 23/20/16	▲ 18/17/15	---

Customer Id: CONMUSAL
 Sample No.: KFS0003645
 Lab Number: 06010744
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.

HISTORICAL DIAGNOSIS

27 Jul 2023 Diag: Jonathan Hester

ISO



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



12 Apr 2023 Diag: Jonathan Hester

DIRT



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample. Moderate concentration of visible metal present. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid.

view report



10 Jan 2023 Diag: Doug Bogart

WEAR



We recommend you service the filters on this component if applicable. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Bearing and/or bushing wear is indicated. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

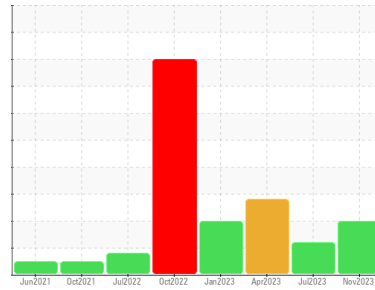
view report





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
COLD MILL/CM-3STD-2N
Machine Id
S3 EAST MOTOR BEARING 3ST2_S3 East Motor Bearing
Component
Bearing
Fluid
ROYAL PURPLE SYNFILM GT 68 (50 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	KFS0003645	KFS0003688	KFS0003087
Sample Date	Client Info	15 Nov 2023	27 Jul 2023	12 Apr 2023
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	ATTENTION	ABNORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >2	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >20	<1	0	0
Chromium	ppm ASTM D5185m >20	<1	0	0
Nickel	ppm ASTM D5185m >20	0	0	0
Titanium	ppm ASTM D5185m	<1	0	0
Silver	ppm ASTM D5185m	0	0	0
Aluminum	ppm ASTM D5185m >20	<1	0	0
Lead	ppm ASTM D5185m >20	0	0	0
Copper	ppm ASTM D5185m >20	1	1	<1
Tin	ppm ASTM D5185m >20	9	19	12
Vanadium	ppm ASTM D5185m	<1	<1	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	0	0	0
Barium	ppm ASTM D5185m	0	0	0
Molybdenum	ppm ASTM D5185m	0	0	0
Manganese	ppm ASTM D5185m	<1	0	<1
Magnesium	ppm ASTM D5185m 90	0	78	80
Calcium	ppm ASTM D5185m	0	0	1
Phosphorus	ppm ASTM D5185m	26	0	1
Zinc	ppm ASTM D5185m	0	0	0
Sulfur	ppm ASTM D5185m	2905	21345	21433

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >15	9	14	▲ 30
Sodium	ppm ASTM D5185m	2	1	1
Potassium	ppm ASTM D5185m >20	1	0	1

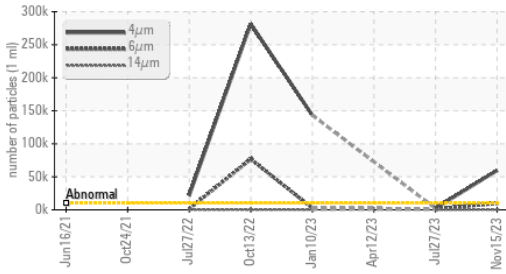
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	▲ 59558	2157	---
Particles >6µm	ASTM D7647 >2500	▲ 9855	1175	---
Particles >14µm	ASTM D7647 >160	▲ 421	▲ 200	---
Particles >21µm	ASTM D7647 >40	▲ 85	▲ 67	---
Particles >38µm	ASTM D7647 >10	4	10	---
Particles >71µm	ASTM D7647 >3	0	1	---
Oil Cleanliness	ISO 4406 (c) >20/18/14	▲ 23/20/16	▲ 18/17/15	---

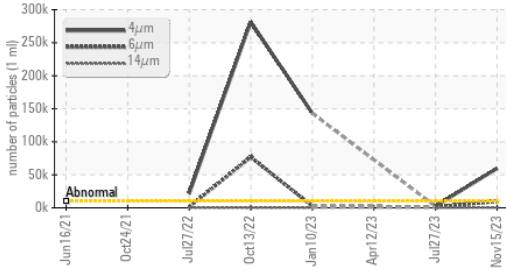
FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045	0.33	0.53	0.33

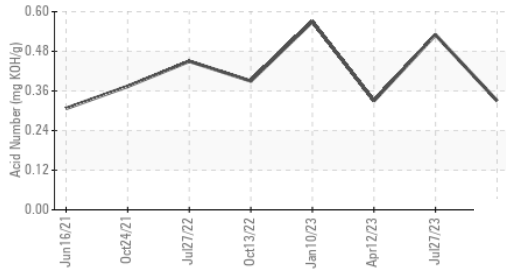
▲ Particle Trend



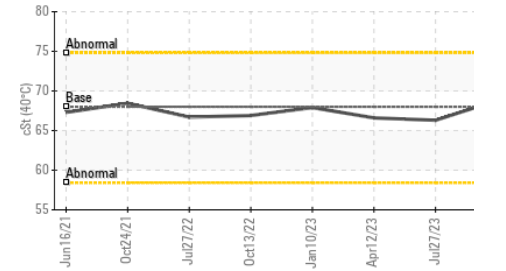
▲ Particle Trend



Acid Number



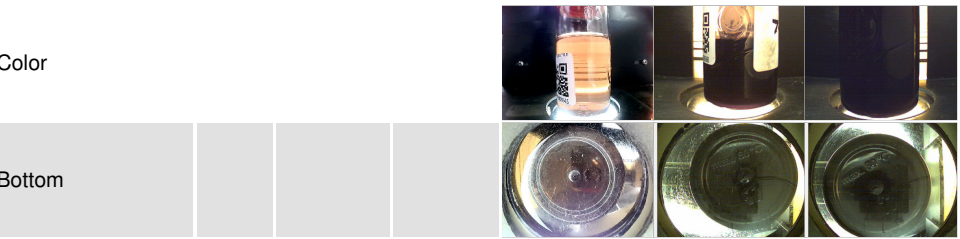
Viscosity @ 40°C



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	▲ MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

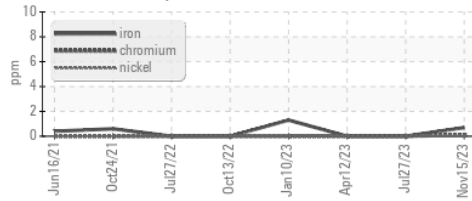
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68	68.8	66.3

SAMPLE IMAGES

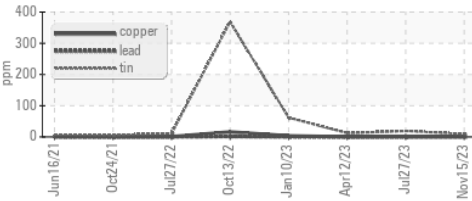


GRAPHS

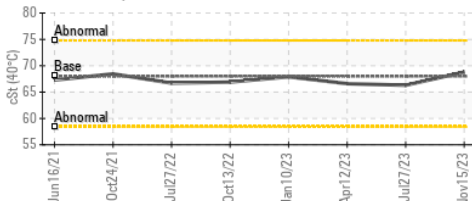
Ferrous Alloys



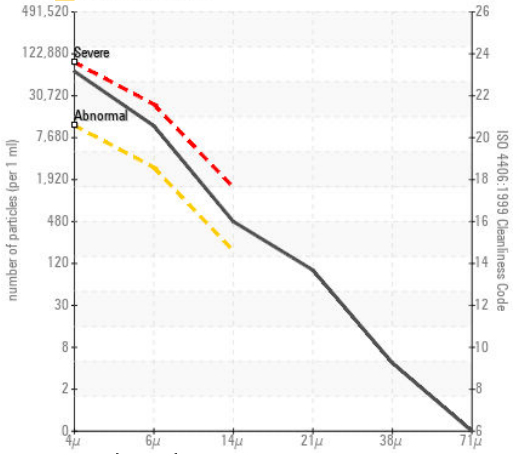
Non-ferrous Metals



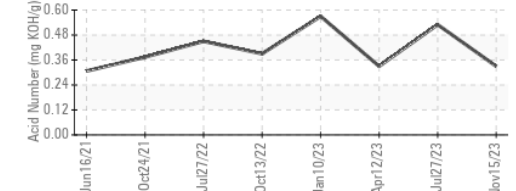
Viscosity @ 40°C



▲ Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KFS0003645 **Received** : 17 Nov 2023
Lab Number : 06010744 **Diagnosed** : 20 Nov 2023
Unique Number : 10749888 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: PrtCount)

CONSTELLIUM
 4805 SECOND STREET
 MUSCLE SHOALS, AL
 US 35661
 Contact: Josh Edwards
 joshua.edwards@constellium.com
 T: (256)386-6613
 F:

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)