MOB 1

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
H0042
Component
Transmission (Manual)
Fluid
CAT TDTO 10W (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

Moderate concentration of visible metal present. Clutch wear is indicated.

CONTAMINATION

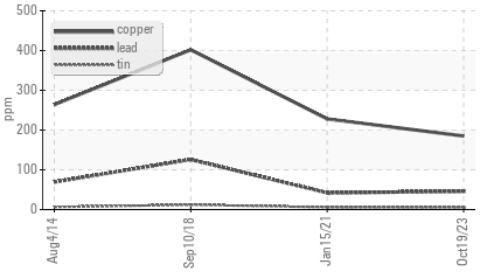
There is no indication of any contamination in the fluid.

FLUID CONDITION

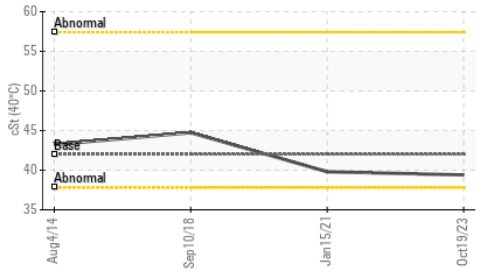
The condition of the fluid is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0776945	WC0505862	PCAM1381928
Sample Date		Client Info		19 Oct 2023	15 Jan 2021	10 Sep 2018
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	SEVERE
Iron	ppm	ASTM D5185m	>200	94	149	▲ 367
Chromium	ppm	ASTM D5185m	>5	1	1	2
Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
Titanium	ppm	ASTM D5185m		1	<1	<1
Silver	ppm	ASTM D5185m	>7	7	7	13
Aluminum	ppm	ASTM D5185m	>25	4	2	2
Lead	ppm	ASTM D5185m	>45	▲ 46	42	▲ 126
Copper	ppm	ASTM D5185m	>225	▲ 185	228	▲ 402
Tin	ppm	ASTM D5185m	>10	5	6	▲ 12
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	▲ MODER	NONE	▲ HEAVY
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>125	14	20	27
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water		WC Method	>0.1	NEG	NEG	NEG
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		5	2	4
Boron	ppm	ASTM D5185m		3	7	5
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		0	2	0
Manganese	ppm	ASTM D5185m		3	2	4
Magnesium	ppm	ASTM D5185m		14	18	15
Calcium	ppm	ASTM D5185m	2980	2776	3296	3778
Phosphorus	ppm	ASTM D5185m	1100	959	913	856
Zinc	ppm	ASTM D5185m	1270	1151	1058	1031
Sulfur	ppm	ASTM D5185m		5152	3933	3862
Visc @ 40°C	cSt	ASTM D445	42.0	39.4	39.8	44.74

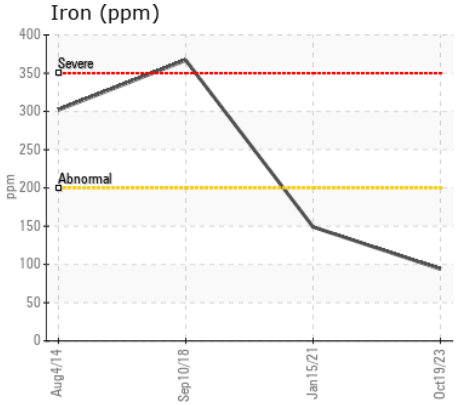
Non-ferrous Metals



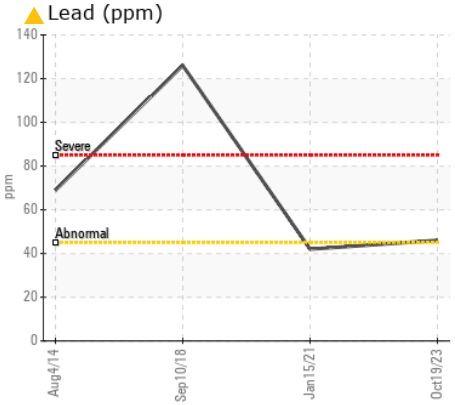
Viscosity @ 40°C



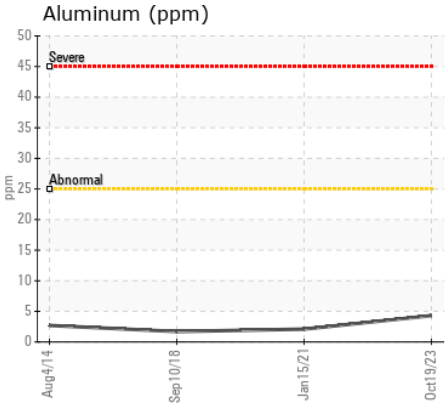
Iron (ppm)



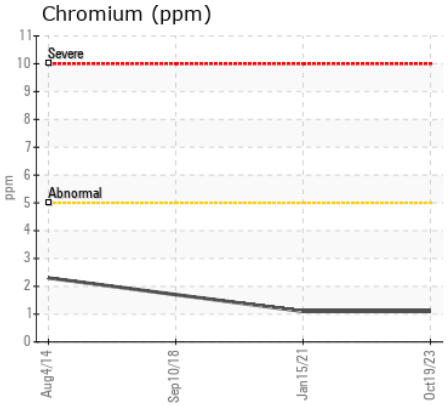
Lead (ppm)



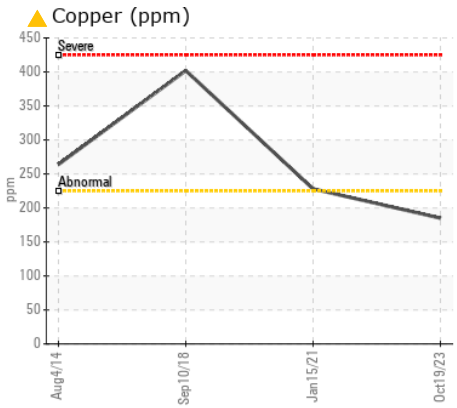
Aluminum (ppm)



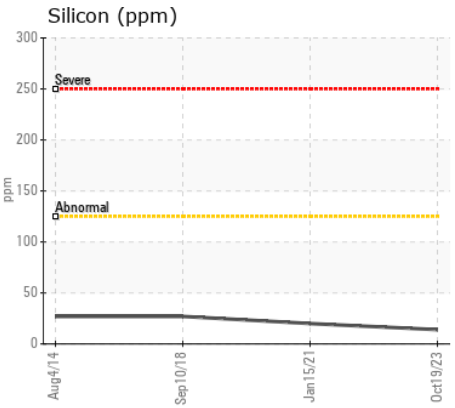
Chromium (ppm)



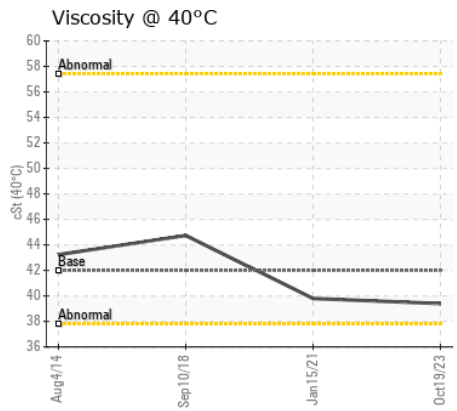
Copper (ppm)



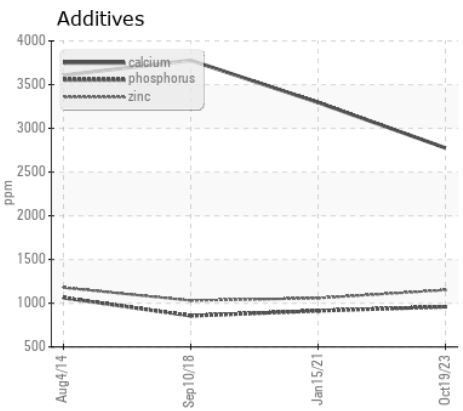
Silicon (ppm)



Viscosity @ 40°C



Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0776945
Lab Number : 05985929
Unique Number : 10708591
Test Package : MOB 1

Received : 20 Oct 2023
Tested : 23 Oct 2023
Diagnosed : 25 Oct 2023 - Jonathan Hester

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)

BAE SYSTEMS
1100 BAIRS RD
YORK, PA
US 17408
Contact: DOUG RUSSO
doug.russo@baesystems.com
T: (717)524-0737
F: (717)225-8311