MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
ALLISON 232
Component
Rear Transmission (Auto)
Fluid
CASTROL TRANSYND (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

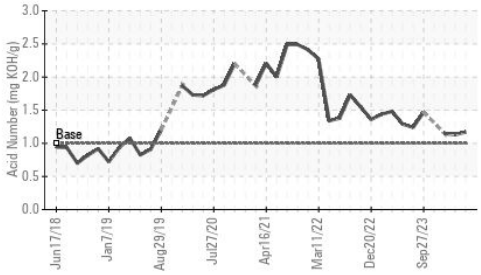
There is no indication of any contamination in the fluid.

FLUID CONDITION

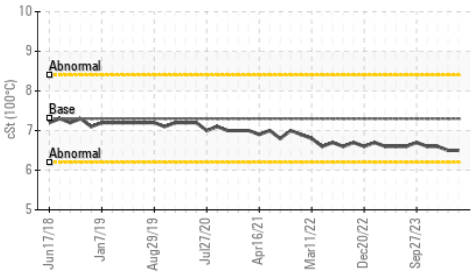
The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0889014	WC0889115	WC0889104
Sample Date		Client Info		22 Apr 2024	22 Feb 2024	28 Dec 2023
Machine Age	kms	Client Info		0	0	0
Oil Age	kms	Client Info		45751	36710	27761
Filter Age	kms	Client Info		45751	36710	27761
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
PQ		ASTM D8184*	>105	0	0	---
Iron	ppm	ASTM D5185(m)	>230	46	44	40
Chromium	ppm	ASTM D5185(m)	>2	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	<1	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>5	0	0	0
Aluminum	ppm	ASTM D5185(m)	>65	7	7	6
Lead	ppm	ASTM D5185(m)	>55	<1	2	2
Copper	ppm	ASTM D5185(m)	>85	8	8	7
Tin	ppm	ASTM D5185(m)	>5	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>20	4	5	4
Potassium	ppm	ASTM D5185(m)	>20	2	1	<1
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	HAZY
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		4	3	3
Boron	ppm	ASTM D5185(m)	150	75	74	76
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	1	<1	0
Manganese	ppm	ASTM D5185(m)		<1	0	0
Magnesium	ppm	ASTM D5185(m)	0	1	1	1
Calcium	ppm	ASTM D5185(m)	40	132	128	127
Phosphorus	ppm	ASTM D5185(m)	320	242	242	242
Zinc	ppm	ASTM D5185(m)	5	4	4	3
Sulfur	ppm	ASTM D5185(m)	1050	1561	1632	1664
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	1.17	1.13	1.15
Visc @ 40°C	cSt	ASTM D7279(m)	38.9	33.0	32.9	33.3
Visc @ 100°C	cSt	ASTM D7279(m)	7.3	6.5	6.5	6.6
Viscosity Index (VI)	Scale	ASTM D2270*	168	154	155	158

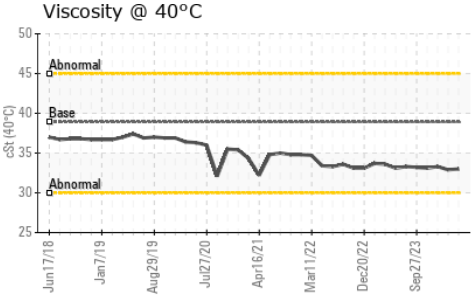
Acid Number



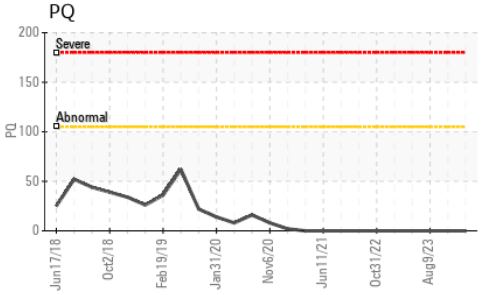
Viscosity @ 100°C



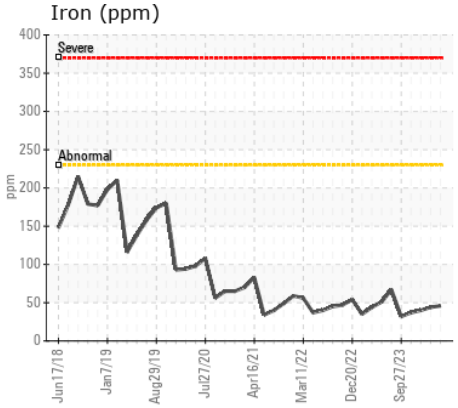
Viscosity @ 40°C



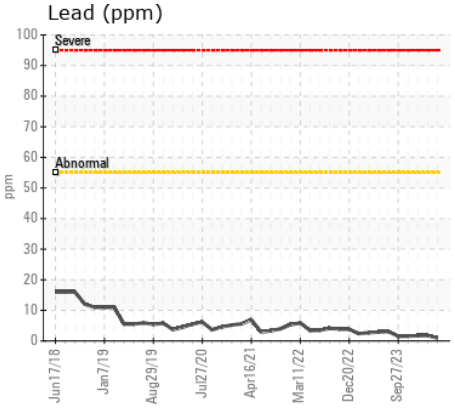
PQ



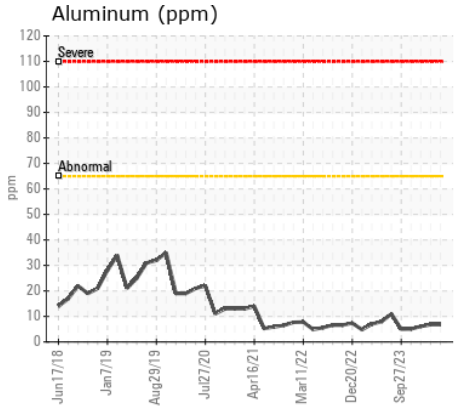
Iron (ppm)



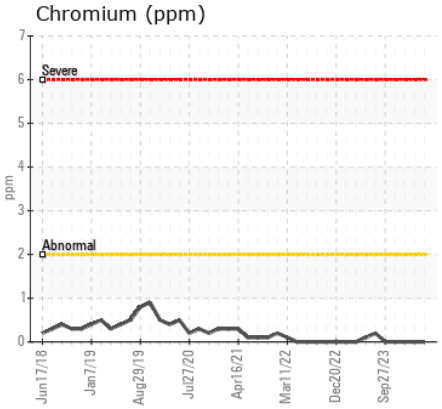
Lead (ppm)



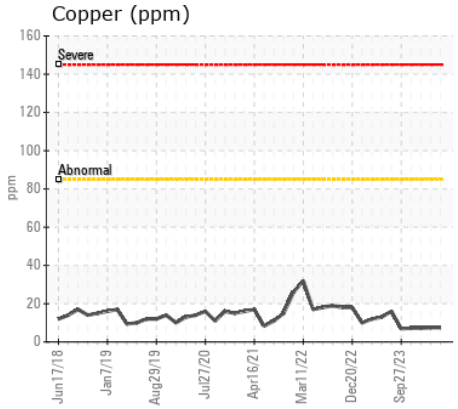
Aluminum (ppm)



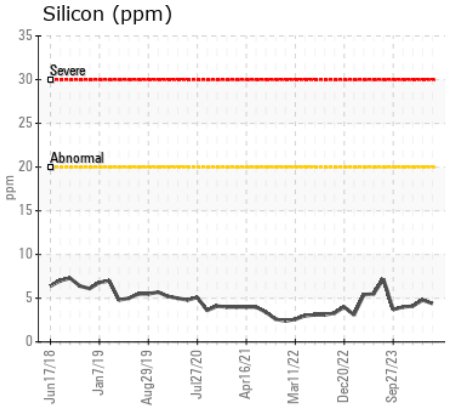
Chromium (ppm)



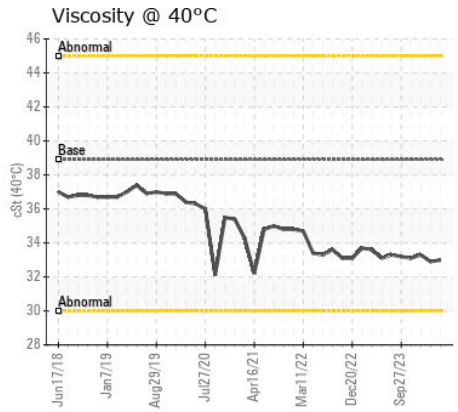
Copper (ppm)



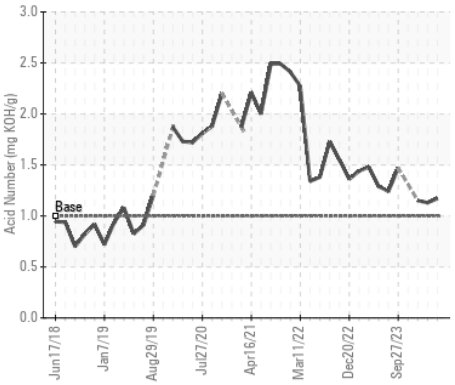
Silicon (ppm)



Viscosity @ 40°C



Acid Number



CALA
ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0889014 **Received** : 29 Apr 2024
Lab Number : 02632015 **Tested** : 30 Apr 2024
Unique Number : 5773168 **Diagnosed** : 30 Apr 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: KV100, PQ, VI)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.

CITY OF THUNDER BAY
AUTO MAINTENANCE STORES, 570 FORT WILLIAM ROAD
THUNDER BAY, ON
CA P7B 2Z8
Contact: Sean Malcolm
sean.malcolm@thunderbay.ca
T: (807)684-2716
F: (807)344-0237