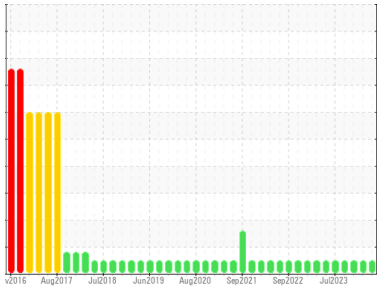
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
147
Component
Rear Transmission (Auto)
Fluid
CASTROL TRANSYND (--- LTR)

DIAGNOSIS

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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0889032**	WC0889164	WC0816356
Sample Date		Client Info		**25 Mar 2024**	01 Feb 2024	16 Oct 2023
Machine Age	kms	Client Info		**0**	0	0
Oil Age	kms	Client Info		**37297**	17143	19146
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**NORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*	>105	**3**	0	---
Iron	ppm	ASTM D5185(m)	>230	**79**	67	60
Chromium	ppm	ASTM D5185(m)	>2	**0**	0	0
Nickel	ppm	ASTM D5185(m)	>5	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	**0**	0	0
Silver	ppm	ASTM D5185(m)	>5	**0**	0	<1
Aluminum	ppm	ASTM D5185(m)	>65	**19**	15	12
Lead	ppm	ASTM D5185(m)	>55	**3**	4	4
Copper	ppm	ASTM D5185(m)	>85	**5**	4	4
Tin	ppm	ASTM D5185(m)	>5	**1**	1	<1
Antimony	ppm	ASTM D5185(m)		**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

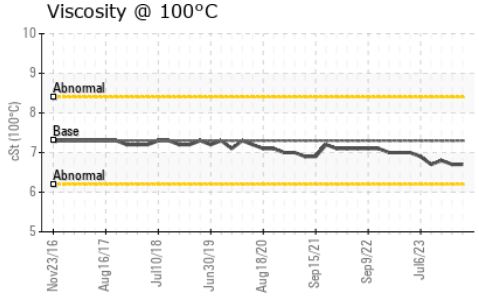
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	150	**60**	61	62
Barium	ppm	ASTM D5185(m)	0	**0**	0	<1
Molybdenum	ppm	ASTM D5185(m)	0	**0**	0	0
Manganese	ppm	ASTM D5185(m)		**0**	<1	<1
Magnesium	ppm	ASTM D5185(m)	0	**2**	1	2
Calcium	ppm	ASTM D5185(m)	40	**112**	116	113
Phosphorus	ppm	ASTM D5185(m)	320	**215**	219	219
Zinc	ppm	ASTM D5185(m)	5	**6**	6	6
Sulfur	ppm	ASTM D5185(m)	1050	**1185**	1318	1276
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	**7**	6	6
Sodium	ppm	ASTM D5185(m)		**5**	4	6
Potassium	ppm	ASTM D5185(m)	>20	**2**	2	1

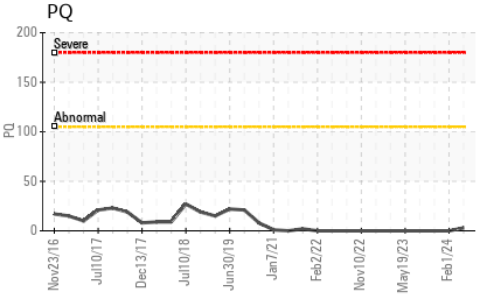
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	**1.07**	1.28	1.37

OIL ANALYSIS REPORT

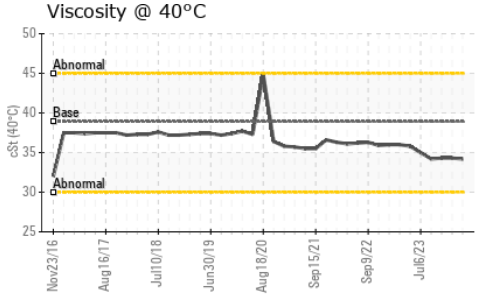
Viscosity @ 100°C



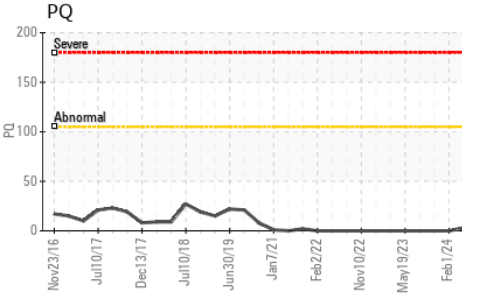
PQ



Viscosity @ 40°C



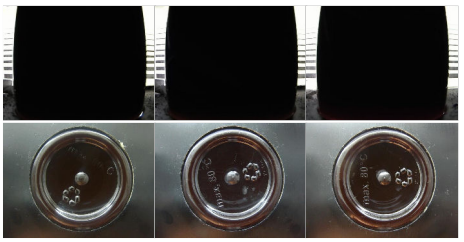
PQ



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Debris	scalar	Visual*	NONE	**NONE**	VLITE	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
Free Water	scalar	Visual*		**NEG**	NEG	NEG

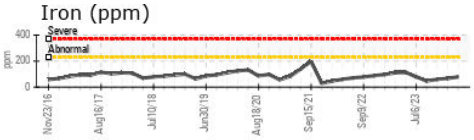
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	38.9	**34.2**	34.3	34.3
Visc @ 100°C	cSt	ASTM D7279(m)	7.3	**6.7**	6.7	6.8
Viscosity Index (VI)	Scale	ASTM D2270*	168	**156**	156	161

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

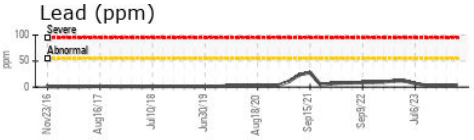


GRAPHS

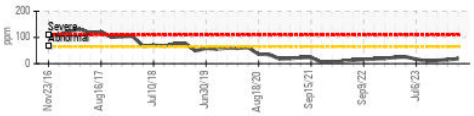
Iron (ppm)



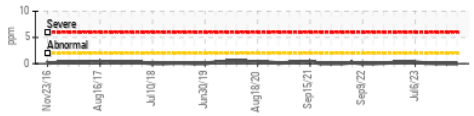
Lead (ppm)



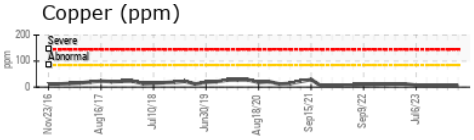
Aluminum (ppm)



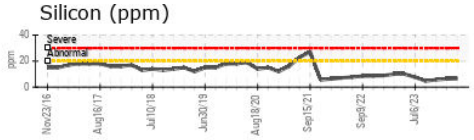
Chromium (ppm)



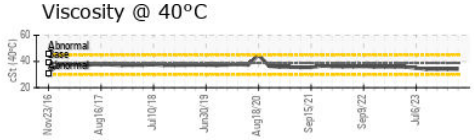
Copper (ppm)



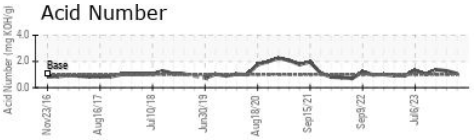
Silicon (ppm)



Viscosity @ 40°C



Acid Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0889032 **Received** : 03 Apr 2024
Lab Number : 02626443 **Tested** : 04 Apr 2024
Unique Number : 5759575 **Diagnosed** : 04 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