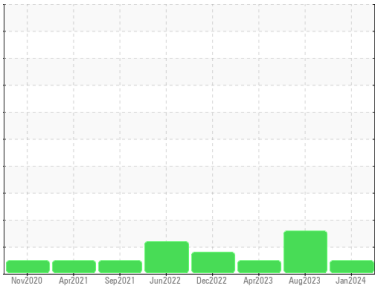
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
4030
Component
Gasoline Engine
Fluid
GASOLINE ENGINE OIL SAE 5W30 (--- LTR)

DIAGNOSIS

Recommendation
Aucune mesure corrective n'est recommandée pour l'instant. Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

Wear
Les taux d'usure de tous les composants sont normaux.

Contamination
Légère dilution de carburant dans l'huile. Aucun autre contaminant n'a été détecté dans l'huile.

Fluid Condition
Le résultat pour le BN indique que la réserve d'alcalinité est acceptable pour l'huile. L'état de l'huile permet d'en prolonger l'utilisation.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PC0079466**	PC0073436	PC0074662
Sample Date		Client Info		**13 Jan 2024**	18 Aug 2023	18 Apr 2023
Machine Age	kms	Client Info		**46828**	0	0
Oil Age	kms	Client Info		**5283**	3309	5342
Oil Changed		Client Info		**N/A**	Changed	Changed
Sample Status				**NORMAL**	ABNORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	**3**	3	4
Chromium	ppm	ASTM D5185(m)	>20	**0**	0	0
Nickel	ppm	ASTM D5185(m)	>5	**<1**	0	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)	>2	**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>40	**1**	<1	1
Lead	ppm	ASTM D5185(m)	>50	**0**	<1	0
Copper	ppm	ASTM D5185(m)	>155	**1**	<1	<1
Tin	ppm	ASTM D5185(m)	>10	**0**	0	0
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)	75	**85**	121	70
Barium	ppm	ASTM D5185(m)	5	**0**	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	**66**	67	64
Manganese	ppm	ASTM D5185(m)		**0**	0	<1
Magnesium	ppm	ASTM D5185(m)	12	**460**	492	502
Calcium	ppm	ASTM D5185(m)	2100	**1163**	1178	1148
Phosphorus	ppm	ASTM D5185(m)	650	**572**	630	612
Zinc	ppm	ASTM D5185(m)	850	**690**	734	752
Sulfur	ppm	ASTM D5185(m)	2500	**2391**	2274	2364
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	**19**	25	13
Sodium	ppm	ASTM D5185(m)	>400	**3**	2	3
Potassium	ppm	ASTM D5185(m)	>20	**<1**	0	<1
Fuel	%	ASTM D7593*	>4.0	**1.8**	▲ 4.1	<1.0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		**0**	0	0
Nitration	Abs/cm	ASTM D7624*	>20	**10.4**	9.4	10.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	**21.4**	19.4	21.5

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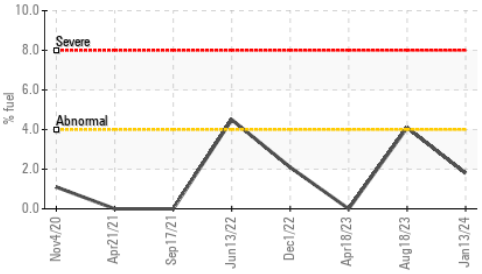
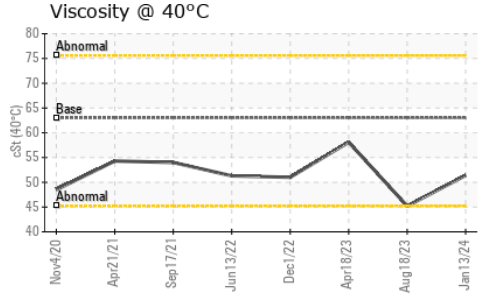
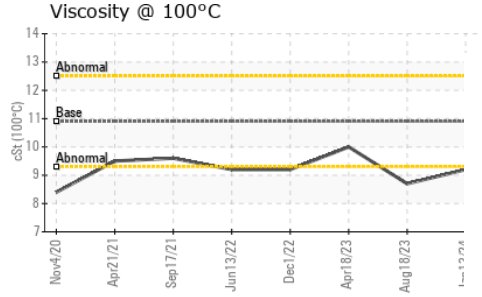
Fuel Dilution



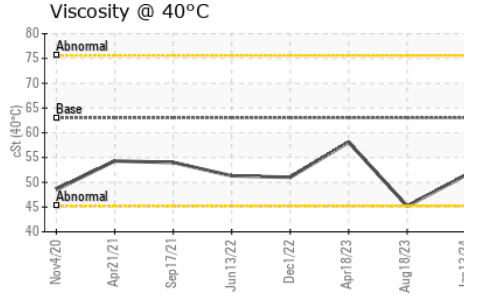
Viscosity @ 40°C



Viscosity @ 100°C



Viscosity @ 40°C



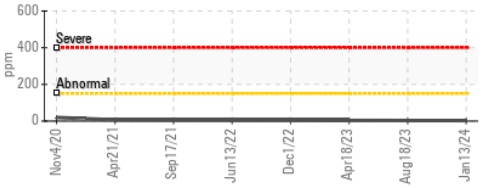
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**14.0**	11.5	13.9
Base Number (BN)	mg KOH/g	ASTM D2896*		**4.63**	5.37	4.84

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	**VLITE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	NONE
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*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

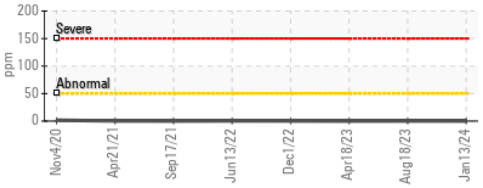
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	63	**51.4**	▲ 45.2	58.1
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	**9.2**	▲ 8.7	10.0
Viscosity Index (VI)	Scale	ASTM D2270*	165	**162**	174	159

GRAPHS

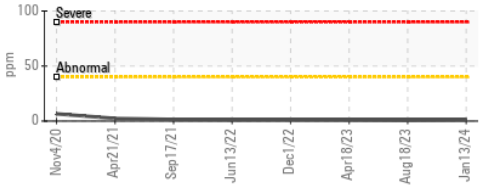
Iron (ppm)



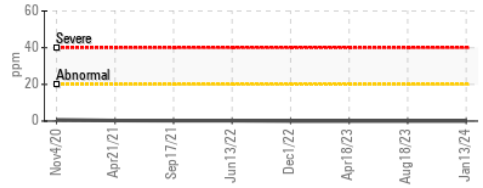
Lead (ppm)



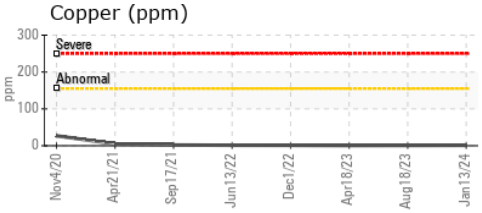
Aluminum (ppm)



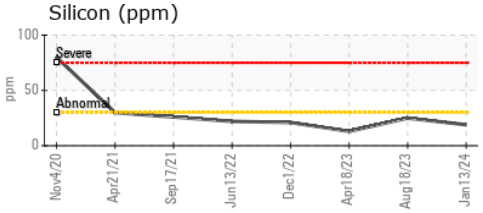
Chromium (ppm)



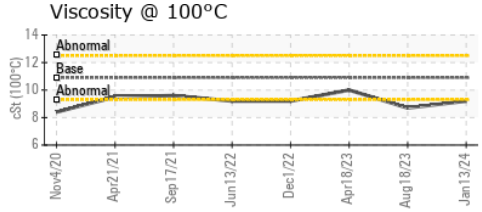
Copper (ppm)



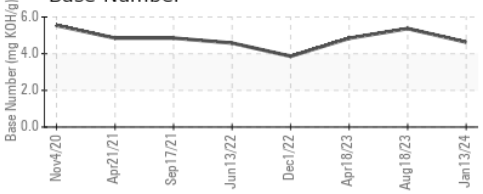
Silicon (ppm)



Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0079466 **Received** : 30 Jan 2024
Lab Number : 02612104 **Tested** : 31 Jan 2024
Unique Number : 5721199 **Diagnosed** : 31 Jan 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: KV40, PercentFuel, 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.

TRANSDEV ST-JEAN
720 TROTTER
ST-JEAN-SUR-RICHELIEU, QC
CA J3B 8T2
Contact: Eric Breton
eric.breton@transdev.com
T:
F: