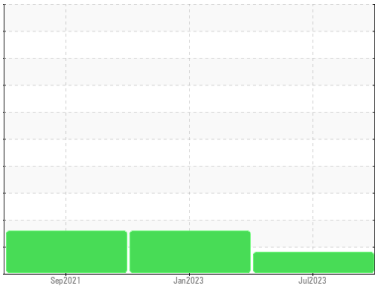
OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

Machine Id
704218
Component
Gasoline Engine
Fluid
GASOLINE ENGINE OIL SAE 5W30 (--- GAL)

DIAGNOSIS

Recommendation

Aucune mesure corrective n`est recommandée pour l`instant. Confirm the source of the lubricant being utilized for top-up/fill. Échantillonner de nouveau l`équipement au prochain intervalle de vidange afin d`en surveiller la condition. Le fluide était spécifié comme (GENERIC) GASOLINE ENGINE OIL SAE 5W30, toutefois, une comparaison avec d'autres fluides indiqu que ce fluide est du SAE 0W40 Diesel Engine Oil. Veuillez confirmer la viscosité de l`huile et veuillez préciser la marque de votre prochain échantillon.

Wear

Les taux d`usure de tous les composants sont normaux.

Contamination

La teneur en carburant est négligeable. Il n`y a aucun indice de contamination dans l`huile.

Fluid Condition

Le résultat pour le BN indique que la réserve d'alcalinité est acceptable pour l`huile. La viscosité de l'échantillon se situe dans la portée de l'SAE 0W40; nous vous conseillons de vérifier. Ceci, en plus des niveaux d`additifs, indique que la marque ou le type d`huile ne correspond pas à ce qui a été signalé. L`état de l`huile permet d`en prolonger l`utilisation.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PC0073582**	PC0063231	PC0050231
Sample Date		Client Info		**07 Jul 2023**	16 Jan 2023	07 Sep 2021
Machine Age	kms	Client Info		**260900**	0	0
Oil Age	kms	Client Info		**8043**	6326	239082
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

CONTAMINATION	method	limit/base	current	history1	history2
Glycol	WC Method		**NEG**	0.0	0.0

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	**36**	16	21
Chromium	ppm	ASTM D5185(m)	>20	**2**	0	0
Nickel	ppm	ASTM D5185(m)	>5	**1**	0	0
Titanium	ppm	ASTM D5185(m)		**0**	0	<1
Silver	ppm	ASTM D5185(m)	>2	**<1**	0	0
Aluminum	ppm	ASTM D5185(m)	>40	**3**	2	2
Lead	ppm	ASTM D5185(m)	>50	**5**	0	2
Copper	ppm	ASTM D5185(m)	>155	**1**	<1	1
Tin	ppm	ASTM D5185(m)	>10	**<1**	<1	<1
Antimony	ppm	ASTM D5185(m)		**0**	<1	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

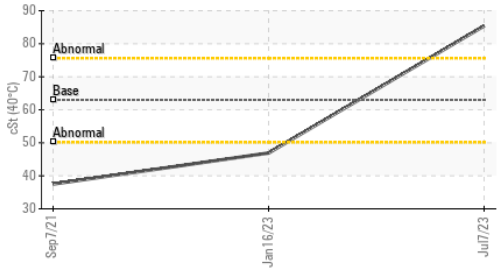
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	75	**2**	97	120
Barium	ppm	ASTM D5185(m)	5	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	100	**60**	61	69
Manganese	ppm	ASTM D5185(m)		**<1**	<1	<1
Magnesium	ppm	ASTM D5185(m)	12	**1019**	443	489
Calcium	ppm	ASTM D5185(m)	2100	**1070**	1132	1209
Phosphorus	ppm	ASTM D5185(m)	650	**1076**	669	691
Zinc	ppm	ASTM D5185(m)	850	**1255**	676	765
Sulfur	ppm	ASTM D5185(m)	2500	**2547**	2333	2325
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	**4**	20	10
Sodium	ppm	ASTM D5185(m)	>400	**6**	74	95
Potassium	ppm	ASTM D5185(m)	>20	**<1**	<1	<1
Fuel	%	ASTM D7593*	>4.0	**0.8**	▲ 3.2	▲ 2.3

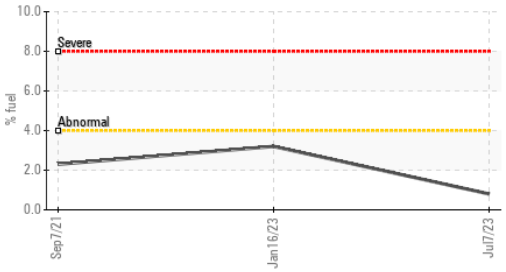
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		**0.4**	0	0
Nitration	Abs/cm	ASTM D7624*	>20	**8.5**	11.3	8.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	**21.6**	22.6	18.0

OIL ANALYSIS REPORT

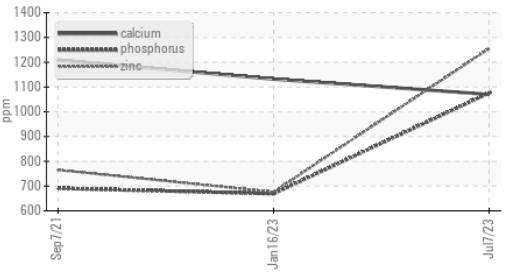
Viscosity @ 40°C



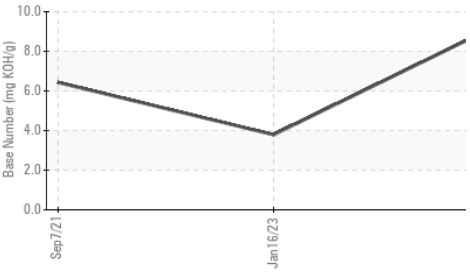
Fuel Dilution



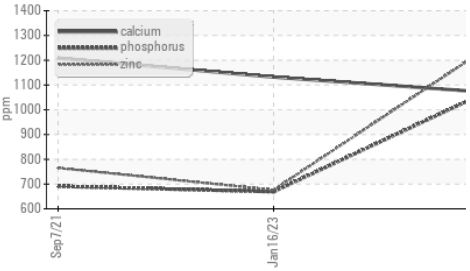
Additives



Base Number



Additives



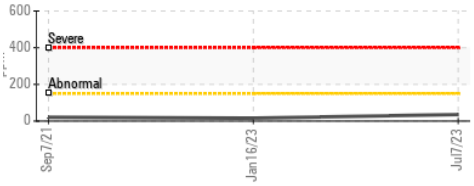
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**16.7**	14.3	11.7
Base Number (BN)	mg KOH/g	ASTM D2896*		**9.11**	3.79	6.43

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

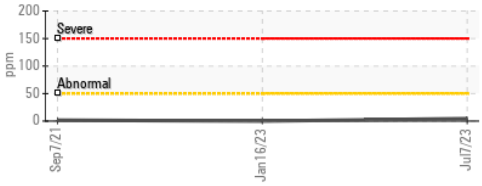
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	63	▲ **85.4**	▲ 46.9	▲ 37.5
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	▲ **14.4**	▲ 8.8	▲ 7.3
Viscosity Index (VI)	Scale	ASTM D2270*	165	**175**	169	163

GRAPHS

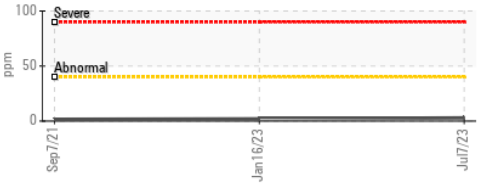
Iron (ppm)



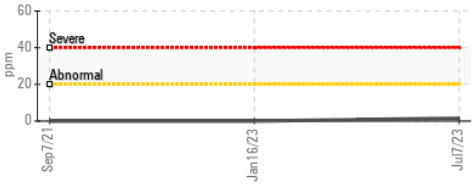
Lead (ppm)



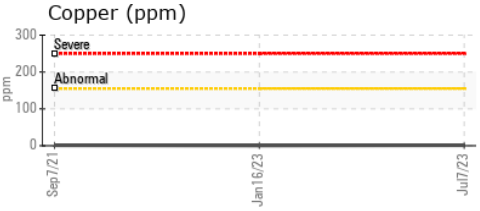
Aluminum (ppm)



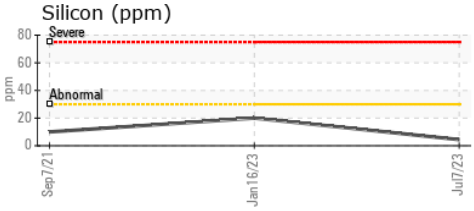
Chromium (ppm)



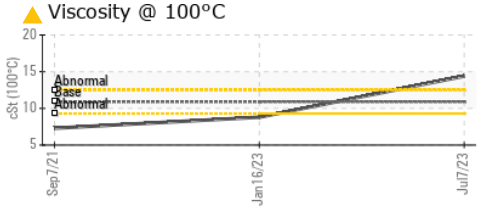
Copper (ppm)



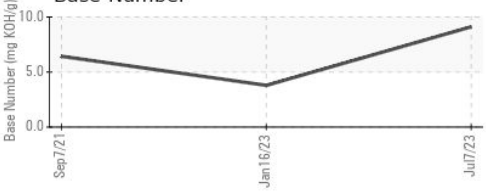
Silicon (ppm)



Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0073582 **Received** : 02 Aug 2023
Lab Number : 02573570 **Diagnosed** : 04 Aug 2023
Unique Number : 5618621 **Diagnostician** : Kevin Marson
Test Package : MOB 2 (Additional Tests: FUELDILUTION, 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: