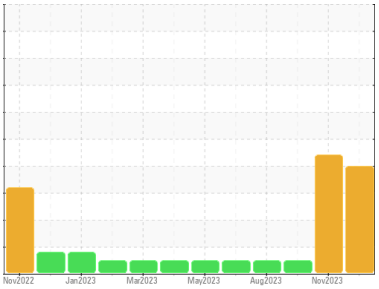
OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id
5216
Component
Gasoline Engine
Fluid
DIESEL ENGINE OIL SAE 5W30 (--- GAL)

DIAGNOSIS

Recommendation

Nous vous recommandons de vérifier la source de l`infiltration d`eau. Nous vous recommandons de vérifier le filtre à air, le système d`induction d`air et tout endroit où la saleté peut entrer dans le composant. Nous avons pris note que l`huile a été vidangée et le filtre remplacé au moment de l`échantillonnage. Nous vous recommandons d`échantillonner de nouveau dès que possible afin de contrôler la situation. Aucune autre mesure corrective n`est recommandée pour l`instant.

Wear

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

Contamination

Légère dilution de carburant dans l`huile. Concentration modérée d`eau dans l`huile. Concentration modérée de saleté dans l`huile. Le test de glycol est négatif. 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`huile ne peut plus être utilisée en raison de la présence de contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PC0079584**	PC0079607	PC0074159
Sample Date		Client Info		**16 Jan 2024**	30 Nov 2023	03 Oct 2023
Machine Age	kms	Client Info		**76185**	69462	0
Oil Age	kms	Client Info		**6718**	3893	6716
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**ABNORMAL**	ABNORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	**14**	28	3
Chromium	ppm	ASTM D5185(m)	>20	**<1**	2	0
Nickel	ppm	ASTM D5185(m)	>5	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)	>2	**0**	<1	<1
Aluminum	ppm	ASTM D5185(m)	>40	**3**	5	1
Lead	ppm	ASTM D5185(m)	>50	**0**	0	0
Copper	ppm	ASTM D5185(m)	>155	**2**	5	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

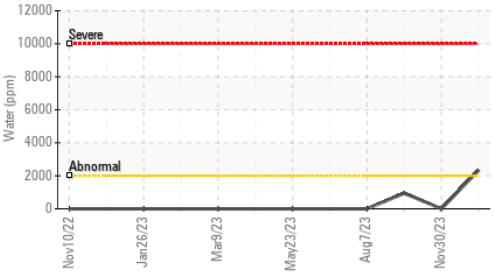
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	**110**	27	98
Barium	ppm	ASTM D5185(m)	10	**0**	<1	<1
Molybdenum	ppm	ASTM D5185(m)	100	**67**	60	69
Manganese	ppm	ASTM D5185(m)		**19**	81	0
Magnesium	ppm	ASTM D5185(m)	450	**451**	357	496
Calcium	ppm	ASTM D5185(m)	3000	**1136**	950	1194
Phosphorus	ppm	ASTM D5185(m)	1150	**592**	494	650
Zinc	ppm	ASTM D5185(m)	1350	**680**	601	731
Sulfur	ppm	ASTM D5185(m)	4250	**2308**	1478	2286
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	▲ **47**	▲ 73	20
Sodium	ppm	ASTM D5185(m)	>400	**4**	5	3
Potassium	ppm	ASTM D5185(m)	>20	**1**	1	<1
Fuel	%	ASTM D7593*	>4.0	▲ **2.2**	1.8	<1.0
Water	%	ASTM D6304*	>0.2	▲ **0.233**	---	0.094
ppm Water	ppm	ASTM D6304*	>2000	▲ **2340**	---	948.8
Glycol	%	ASTM D7922*		**0.0**	NEG	0.0

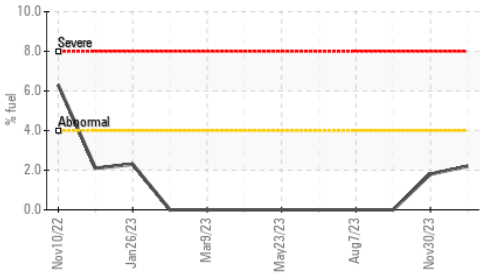
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		**0**	0	0
Nitration	Abs/cm	ASTM D7624*	>20	**10.4**	8.4	9.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	**19.5**	16.9	19.4

OIL ANALYSIS REPORT

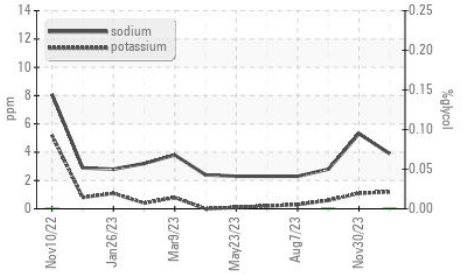
Water (KF)



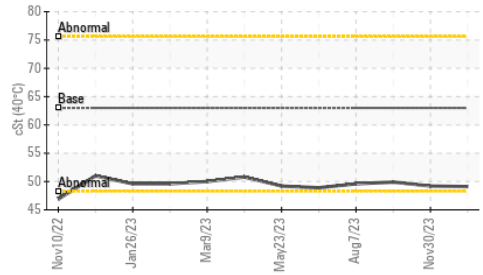
Fuel Dilution



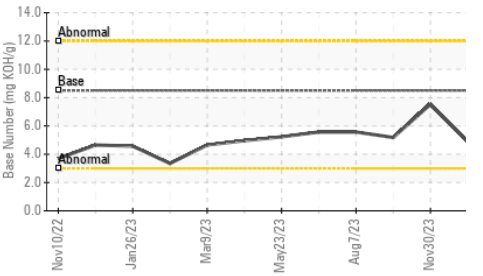
Glycol Contamination



Viscosity @ 40°C



Base Number



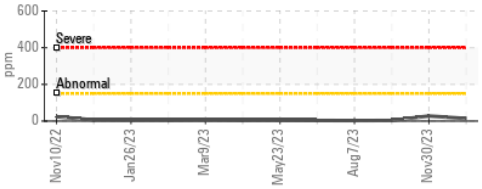
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**12.4**	9.3	12.8
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	**4.89**	7.53	5.18

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**	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Appearance	scalar	Visual*	NORML	**NORML**	NORML	WGOIL
Odor	scalar	Visual*	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	▲ **.2%**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

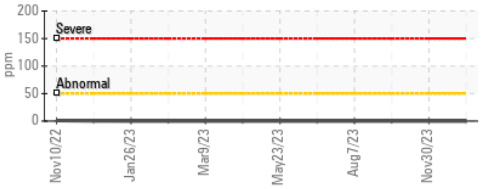
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	63	**49.1**	49.2	49.9
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	**9**	▲ 8.6	9.1
Viscosity Index (VI)	Scale	ASTM D2270*	165	**166**	153	165

GRAPHS

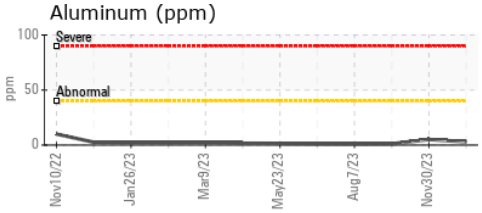
Iron (ppm)



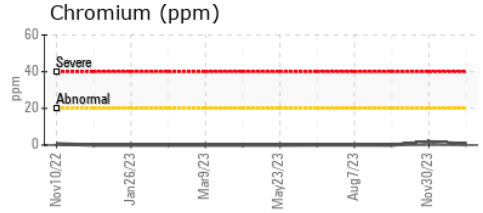
Lead (ppm)



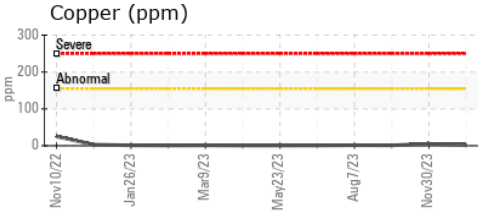
Aluminum (ppm)



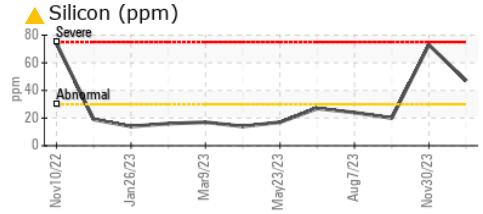
Chromium (ppm)



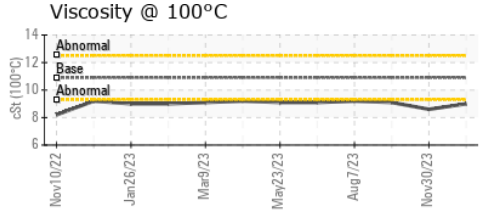
Copper (ppm)



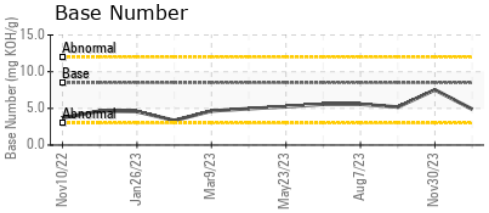
Silicon (ppm)



Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0079584 **Received** : 22 Jan 2024
Lab Number : 02610276 **Tested** : 23 Jan 2024
Unique Number : 5711362 **Diagnosed** : 23 Jan 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: FuelDilution, Glycol, KF, 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: