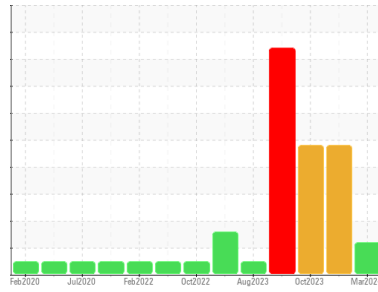


OIL ANALYSIS REPORT



Machine Id
801225
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

Sample Rating Trend



GLYCOL



DIAGNOSIS

Recommendation

Vérifier le niveau du fluide de refroidissement. Nous avons pris note que la vidange d'huile a été effectuée au moment de l'échantillonnage. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

Wear

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

Contamination

Des produits de traitement de l'eau sont présents, ce qui indique une fuite lente de fluide de refroidissement. Le test de glycol est négatif. Il n'y a aucun indice de contamination dans l'huile.

Fluid Condition

L'état de l'huile est acceptable pour la durée de service (voir recommandation).

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PC0082179	PC0078510	PC0078511
Sample Date	Client Info		28 Mar 2024	26 Oct 2023	17 Oct 2023
Machine Age	hrs	Client Info	437225	431690	43676
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		Changed	N/A	N/A
Sample Status			ATTENTION	ABNORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	<1.0	<1.0
Water	WC Method	>0.2	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >75	25	11	10
Chromium	ppm	ASTM D5185(m) >5	1	<1	<1
Nickel	ppm	ASTM D5185(m) >4	<1	<1	0
Titanium	ppm	ASTM D5185(m) >2	0	0	0
Silver	ppm	ASTM D5185(m) >2	0	<1	<1
Aluminum	ppm	ASTM D5185(m) >15	4	3	2
Lead	ppm	ASTM D5185(m) >25	0	<1	<1
Copper	ppm	ASTM D5185(m) >100	3	4	4
Tin	ppm	ASTM D5185(m) >4	0	0	0
Antimony	ppm	ASTM D5185(m)	0	0	<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) 250	8	12	13
Barium	ppm	ASTM D5185(m) 10	0	<1	<1
Molybdenum	ppm	ASTM D5185(m) 100	65	80	78
Manganese	ppm	ASTM D5185(m)	0	0	0
Magnesium	ppm	ASTM D5185(m) 450	946	893	884
Calcium	ppm	ASTM D5185(m) 3000	1070	1062	1049
Phosphorus	ppm	ASTM D5185(m) 1150	994	986	979
Zinc	ppm	ASTM D5185(m) 1350	1159	1164	1138
Sulfur	ppm	ASTM D5185(m) 4250	2497	2560	2525
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

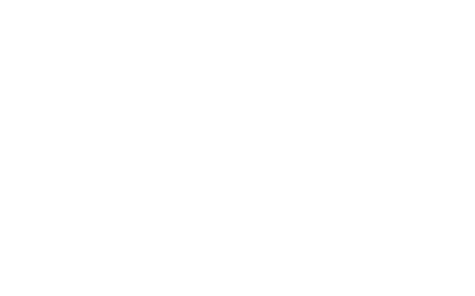
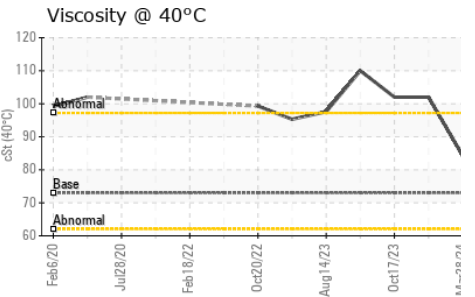
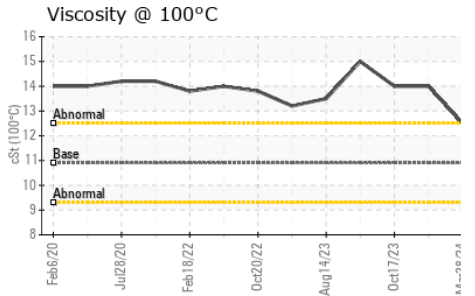
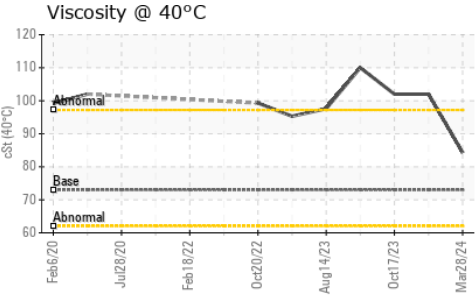
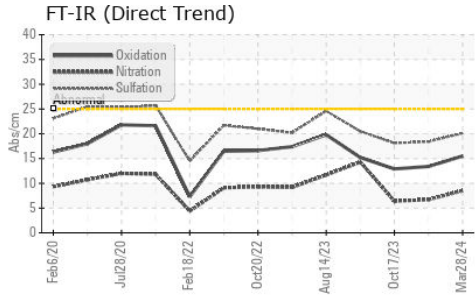
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	13	12	12
Sodium	ppm	ASTM D5185(m)	123	395	389
Potassium	ppm	ASTM D5185(m) >20	14	34	32
Glycol	%	ASTM D7922*	0.0	0.063	0.069

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >6	0.4	0	0
Nitration	Abs/cm	ASTM D7624* >20	8.5	6.7	6.4
Sulfation	Abs.1mm	ASTM D7415* >30	20.1	18.4	18.1

OIL ANALYSIS REPORT

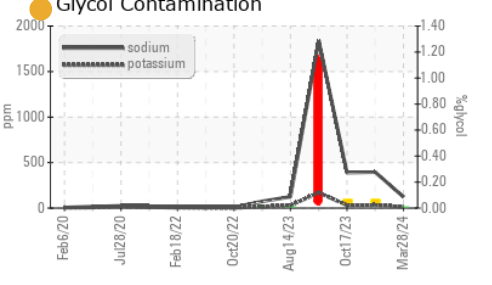
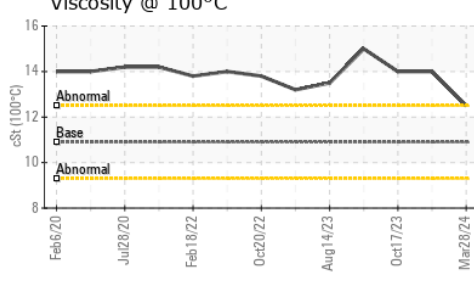
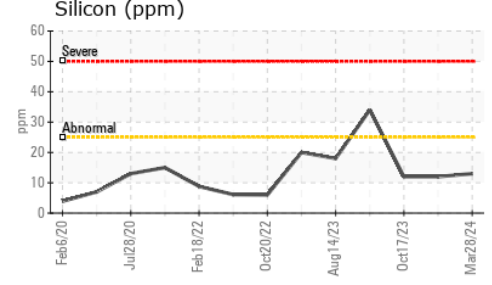
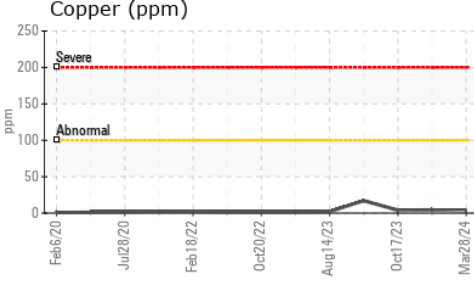
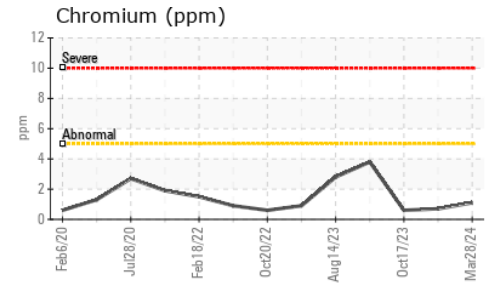
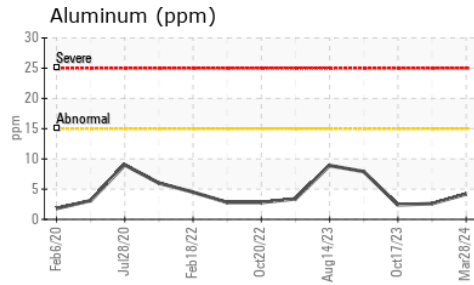
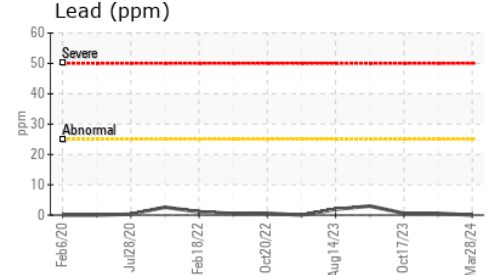
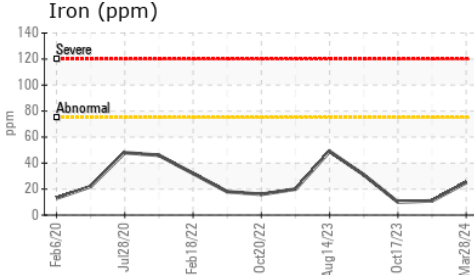


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	15.5	13.4	12.9

VISUAL		method	limit/base	current	history1	history2
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)	73	84.3	102	102
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	12.5	14.0	14.0
Viscosity Index (VI)	Scale	ASTM D2270*	138	145	139	139

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 737 - Quebec City Hauling**
Sample No. : PC0082179 **Received** : 03 Apr 2024 **6205 Boul. Wilfrid Hamel,**
Lab Number : **02626395** **Tested** : 03 Apr 2024 **Quebec City, QC**
Unique Number : 5759527 **Diagnosed** : 04 Apr 2024 - Kevin Marson **CA G2E 5G8**
Test Package : MOB 1 (Additional Tests: KV40, VI) **Contact: Dave Beaulieu**
davebeaulieu@matrec.ca

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.