

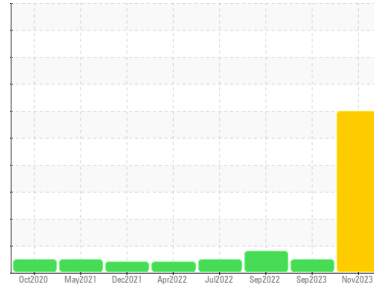
OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Machine Id
801092
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)



DIAGNOSIS

Recommendation

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

La présence d'argent est sévère. Nous avons noté une brusque hausse du taux d'argent.

Contamination

Il n'y a aucun indice de contamination dans l'huile.

Fluid Condition

l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PC0077960	PC0078102	PC0064899
Sample Date	Client Info		06 Nov 2023	26 Sep 2023	26 Sep 2022
Machine Age	hrs	Client Info	142672	136504	110783
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		Changed	Changed	N/A
Sample Status			SEVERE	NORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	<1.0	1.2
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >90	17	30	27
Chromium	ppm	ASTM D5185(m) >20	<1	1	1
Nickel	ppm	ASTM D5185(m) >2	<1	<1	<1
Titanium	ppm	ASTM D5185(m) >2	0	0	<1
Silver	ppm	ASTM D5185(m) >2	8	<1	0
Aluminum	ppm	ASTM D5185(m) >20	2	4	4
Lead	ppm	ASTM D5185(m) >40	0	0	0
Copper	ppm	ASTM D5185(m) >330	1	3	1
Tin	ppm	ASTM D5185(m) >15	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	5	5	6
Barium	ppm	ASTM D5185(m) 10	<1	<1	0
Molybdenum	ppm	ASTM D5185(m) 100	59	61	60
Manganese	ppm	ASTM D5185(m)	0	0	<1
Magnesium	ppm	ASTM D5185(m) 450	942	943	964
Calcium	ppm	ASTM D5185(m) 3000	1048	1071	1079
Phosphorus	ppm	ASTM D5185(m) 1150	967	964	1053
Zinc	ppm	ASTM D5185(m) 1350	1179	1192	1183
Sulfur	ppm	ASTM D5185(m) 4250	2434	2350	2499
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	5	6	6
Sodium	ppm	ASTM D5185(m)	4	2	2
Potassium	ppm	ASTM D5185(m) >20	1	4	2

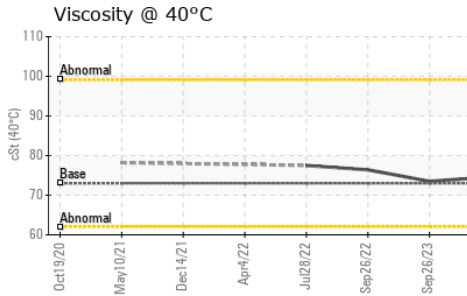
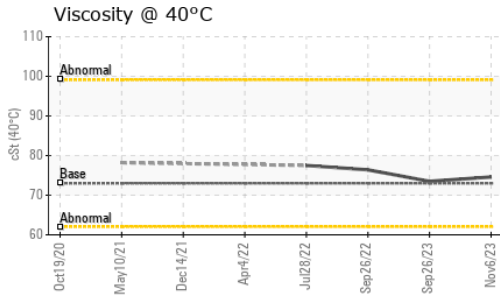
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >6	0.2	0.3	0.3
Nitration	Abs/cm	ASTM D7624* >20	8.2	10.7	9.1
Sulfation	Abs/.1mm	ASTM D7415* >30	19.7	21.6	20.5

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	15.8	18.2	17.0

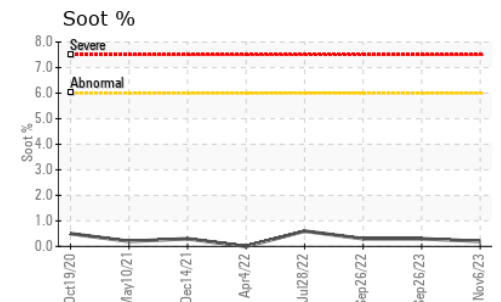
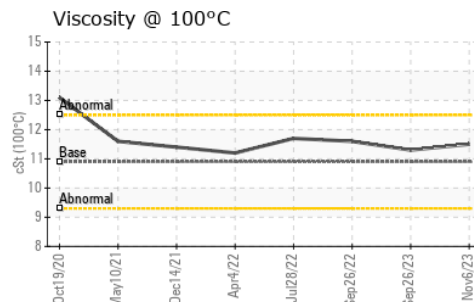
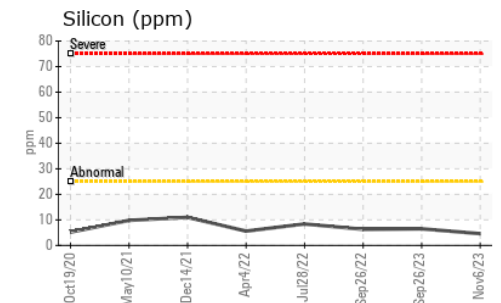
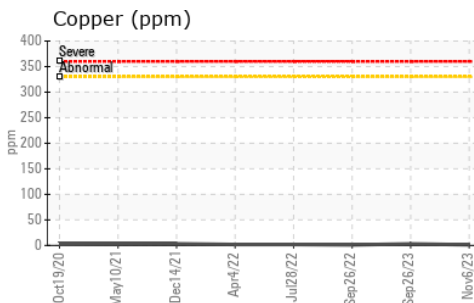
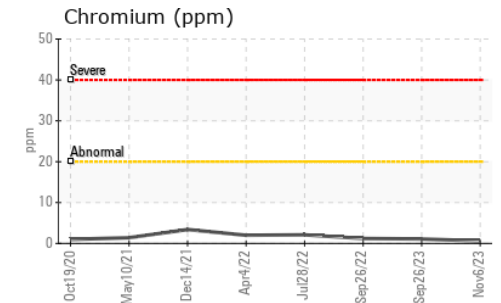
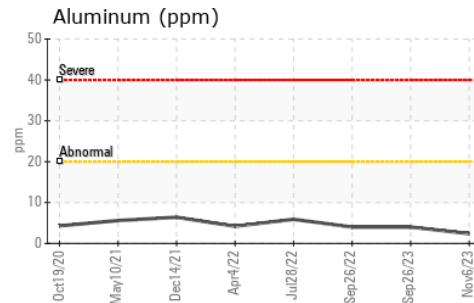
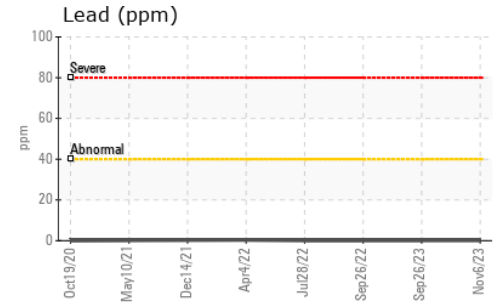
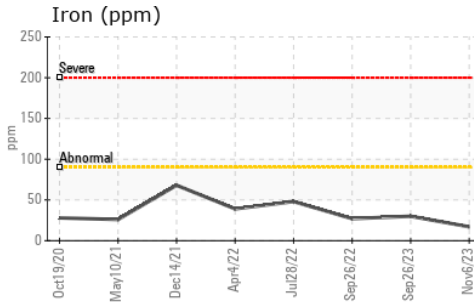
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	73	73.5	▲ 76.4
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	11.3	▲ 11.6
Viscosity Index (VI)	Scale	ASTM D2270*	138	145	144

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 737 - Quebec City Hauling
Sample No. : PC0077960 **Received** : 08 Nov 2023
Lab Number : 02594948 **Diagnosed** : 08 Nov 2023
Unique Number : 5672027 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: KV40, 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.

6205 Boul. Wilfrid Hamel,
 Quebec City, QC
 CA G2E 5G8
 Contact: Dave Beaulieu
 davebeaulieu@matrec.ca

T:
 F: