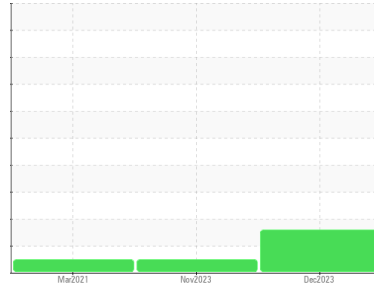




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
ISUZU 45-2

Component
Diesel Engine

Fluid
PETRO CANADA DURON HP 15W40 (--- GAL)

DIAGNOSIS

▲ Recommendation

Nous vous recommandons de vérifier la source de l'infiltration d'eau. 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

Concentration modérée d'eau dans l'huile. Présence d'eau libre. Le test de glycol est négatif.

Fluid Condition

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	WC0797591	WC0792056	WC0558502
Sample Date	Client Info	13 Dec 2023	16 Nov 2023	08 Mar 2021
Machine Age	hrs	10918	10463	4900
Oil Age	hrs	453	457	483
Oil Changed	Client Info	Changed	Changed	N/A
Sample Status		ABNORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<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) >100	19	14	15
Chromium	ppm ASTM D5185(m) >20	<1	0	<1
Nickel	ppm ASTM D5185(m) >4	<1	0	<1
Titanium	ppm ASTM D5185(m)	0	0	<1
Silver	ppm ASTM D5185(m) >3	<1	<1	<1
Aluminum	ppm ASTM D5185(m) >20	12	11	4
Lead	ppm ASTM D5185(m) >40	0	0	0
Copper	ppm ASTM D5185(m) >330	<1	<1	<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) 0	<1	1	1
Barium	ppm ASTM D5185(m) 0	<1	0	0
Molybdenum	ppm ASTM D5185(m) 60	59	58	61
Manganese	ppm ASTM D5185(m) 0	0	0	<1
Magnesium	ppm ASTM D5185(m) 1010	984	949	1037
Calcium	ppm ASTM D5185(m) 1070	1079	1106	1103
Phosphorus	ppm ASTM D5185(m) 1150	1008	1012	1040
Zinc	ppm ASTM D5185(m) 1270	1243	1219	1331
Sulfur	ppm ASTM D5185(m) 2060	2563	2555	2726
Lithium	ppm ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

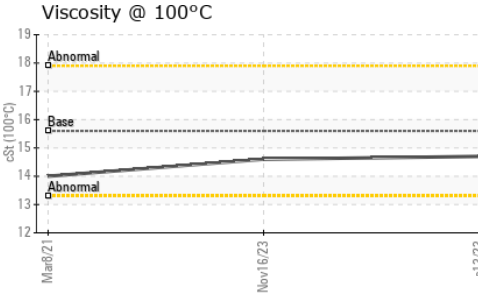
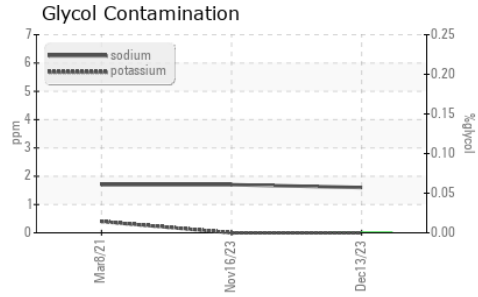
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	6	4	5
Sodium	ppm ASTM D5185(m)	2	2	2
Potassium	ppm ASTM D5185(m) >20	0	0	<1
Glycol	% ASTM D7922*	0.0	NEG	NEG

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	0.9	1	0
Nitration	Abs/cm ASTM D7624* >20	9.5	9.8	8.2
Sulfation	Abs./1mm ASTM D7415* >30	19.8	20.6	19.4



OIL ANALYSIS REPORT

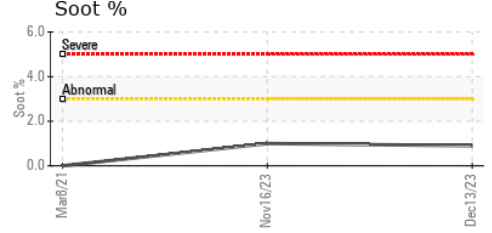
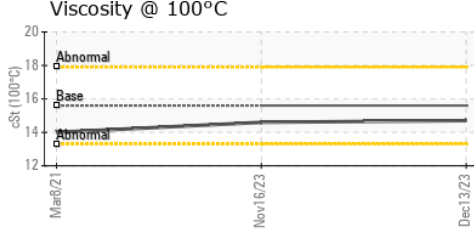
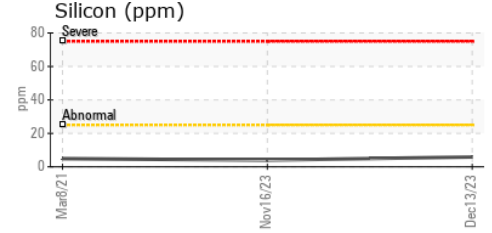
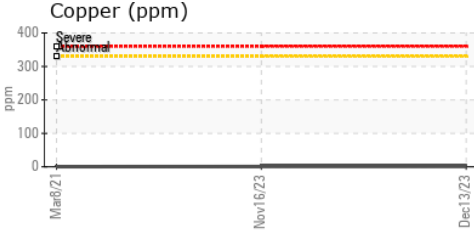
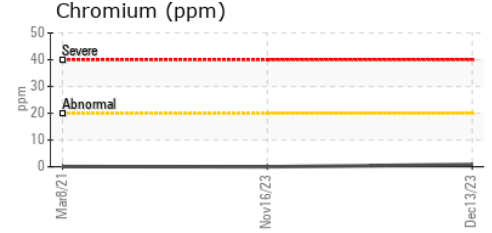
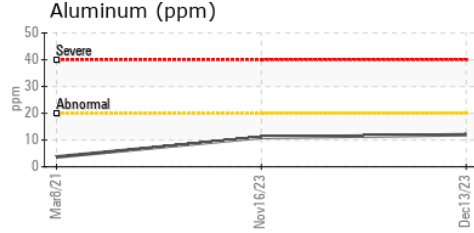
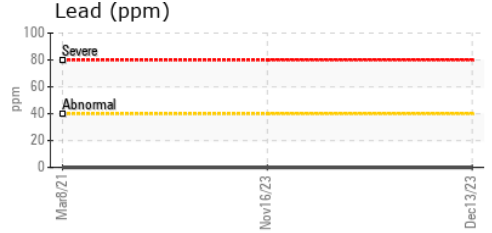
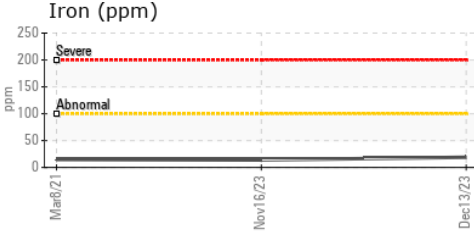


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	17.0	17.6	17.0

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	▲ .5%	NEG
Free Water	scalar	Visual*		▲ 1%	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	14.7	14.6

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0797591 **Received** : 14 Dec 2023
Lab Number : **02603088** **Diagnosed** : 14 Dec 2023
Unique Number : 5696173 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, Visual)

Loue Froid
 195 Boulevard Bellerose Ouest
 Laval, QC
 CA H7L 6A1
 Contact: Benoit Cloutier
 bcloutier@loue-froid.com
 T: (514)527-9009
 F: (450)901-1006

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.