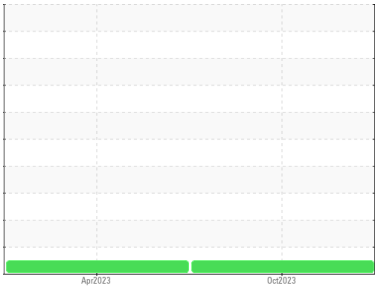
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
DUBEE EXCAVATION [6100216189]
Machine Id
HITACHI HCMJA661A00061708
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 30 (--- GAL)

DIAGNOSIS

Recommendation
Échantillonner de nouveau l`équipement au prochain intervalle de vidange afin d`en surveiller la condition.

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

Contamination
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. L`état de l`huile permet d`en prolonger l`utilisation.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WA0020326**	WA0018838	---
Sample Date		Client Info		**29 Oct 2023**	27 Apr 2023	---
Machine Age	hrs	Client Info		**3521**	2533	---
Oil Age	hrs	Client Info		**500**	100	---
Oil Changed		Client Info		**Not Changd**	Not Changd	---
Sample Status				**NORMAL**	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	**<1.0**	0.7	---
Glycol		WC Method		**NEG**	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	**2**	2	---
Chromium	ppm	ASTM D5185(m)	>20	**0**	0	---
Nickel	ppm	ASTM D5185(m)	>4	**0**	0	---
Titanium	ppm	ASTM D5185(m)		**0**	<1	---
Silver	ppm	ASTM D5185(m)	>3	**<1**	0	---
Aluminum	ppm	ASTM D5185(m)	>20	**<1**	<1	---
Lead	ppm	ASTM D5185(m)	>40	**<1**	0	---
Copper	ppm	ASTM D5185(m)	>330	**<1**	<1	---
Tin	ppm	ASTM D5185(m)	>15	**0**	0	---
Antimony	ppm	ASTM D5185(m)		**0**	<1	---
Vanadium	ppm	ASTM D5185(m)		**0**	0	---
Beryllium	ppm	ASTM D5185(m)		**0**	0	---
Cadmium	ppm	ASTM D5185(m)		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	**2**	8	---
Barium	ppm	ASTM D5185(m)	10	**<1**	0	---
Molybdenum	ppm	ASTM D5185(m)	100	**54**	49	---
Manganese	ppm	ASTM D5185(m)		**0**	<1	---
Magnesium	ppm	ASTM D5185(m)	450	**879**	805	---
Calcium	ppm	ASTM D5185(m)	3000	**1232**	1287	---
Phosphorus	ppm	ASTM D5185(m)	1150	**1006**	1078	---
Zinc	ppm	ASTM D5185(m)	1350	**1181**	1141	---
Sulfur	ppm	ASTM D5185(m)	4250	**2649**	2804	---
Lithium	ppm	ASTM D5185(m)		**<1**	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**3**	2	---
Sodium	ppm	ASTM D5185(m)	>75	**2**	1	---
Potassium	ppm	ASTM D5185(m)	>20	**0**	<1	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**0**	0	---
Nitration	Abs/cm	ASTM D7624*	>20	**5.6**	4.9	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	**18.5**	18.0	---

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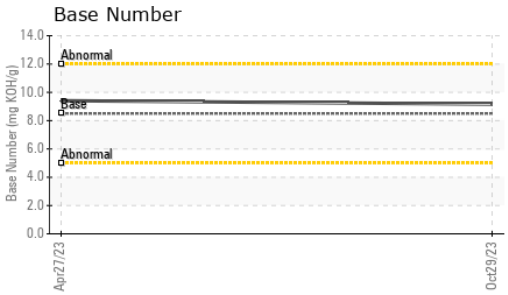
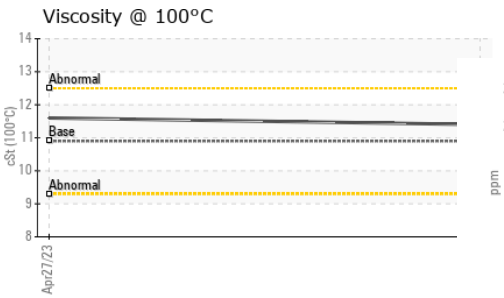


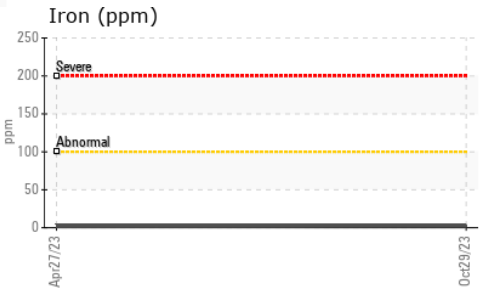


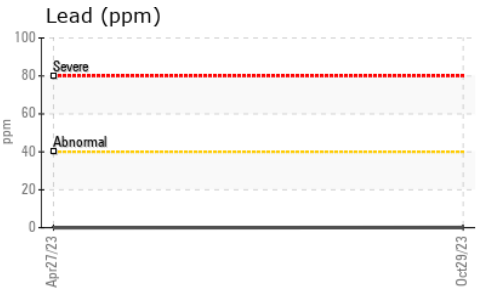
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**13.9**	13.2	---
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	**9.16**	9.41	---

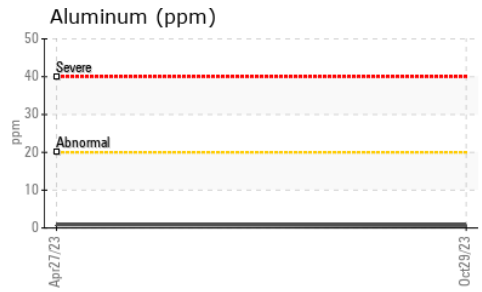
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	---
Free Water	scalar	Visual*		**NEG**	NEG	---

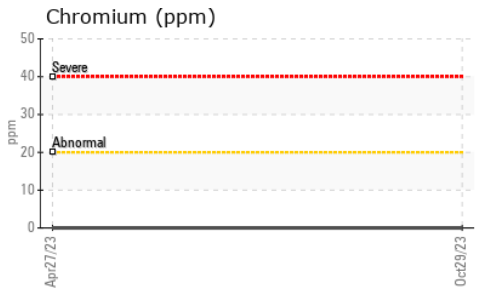
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	**11.4**	11.6	---

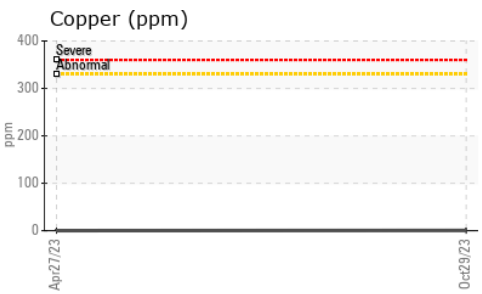
GRAPHS

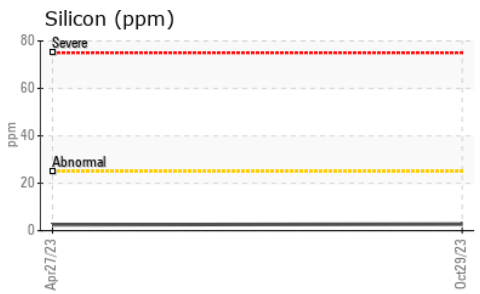


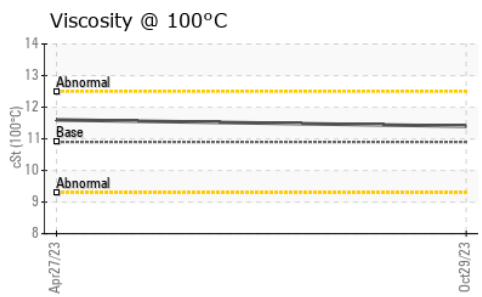


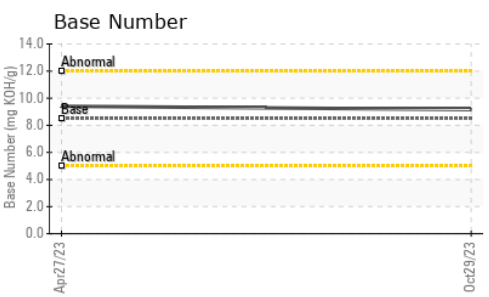












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0020326 **Received** : 30 Oct 2023
Lab Number : 02592630 **Diagnosed** : 31 Oct 2023
Unique Number : 5669709 **Diagnostician** : Kevin Marson
Test Package : MOB 2

DUBE EXCAVATION
161 AVE MARCEL BARIL
ROUYN-NORANDA, QC
CA J9X 7B9
Contact: Service Manager

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.

T:
F: