



# LIEBHERR

## RAPPORT D'ANALYSE D'HUILE

USURE **NORMAL**

CONTAMINATION **NORMAL**

ÉTAT DU FLUIDE **NORMAL**



Identité de la machine

**LIEBHERR LH22M 112532-1250**

Composant

**Moteur diesel**

Fluid

**PETRO CANADA DURON UHP 5W30 (--- GAL)**

### RECOMMANDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Numéro d'échant.		Client Info		<b>LH</b>	LH0153190	LH0246550
Date d'échant.		Client Info		<b>11 Apr 2024</b>	05 Jul 2023	28 Apr 2023
Âge d la Machine	hrs	Client Info		<b>8000</b>	9750	6500
Âge de l'huile	hrs	Client Info		<b>0</b>	0	0
Âge du filtre	hrs	Client Info		<b>0</b>	0	0
Huile changée		Client Info		<b>Changed</b>	Changed	Changed
Filtre changé		Client Info		<b>Changed</b>	Changed	N/A
Statut de l'échant.				<b>NORMAL</b>	NORMAL	NORMAL

### USURE

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

Fer	ppm	ASTM D5185(m)	>100	<b>16</b>	11	21
Chrome	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	<1
Titane	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Argent	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminium	ppm	ASTM D5185(m)	>15	<b>2</b>	2	3
Plomb	ppm	ASTM D5185(m)	>30	<b>0</b>	<1	<1
Cuivre	ppm	ASTM D5185(m)	>125	<b>3</b>	2	2
Étain	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Métal blanc	scalar	Visual*	NONE	<b>NONE</b>	---	---
Bronze	scalar	Visual*	NONE	<b>NONE</b>	---	---

### CONTAMINATION

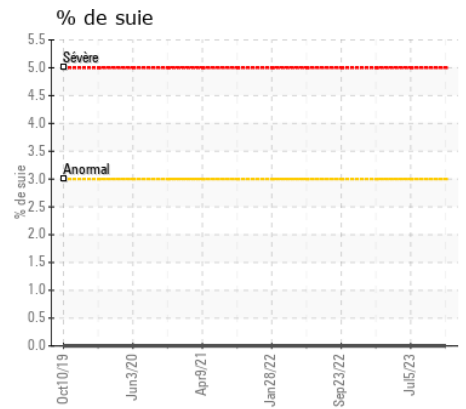
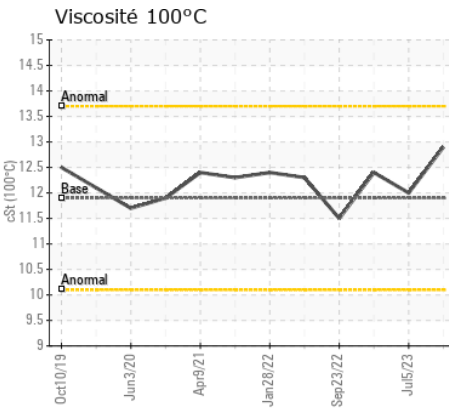
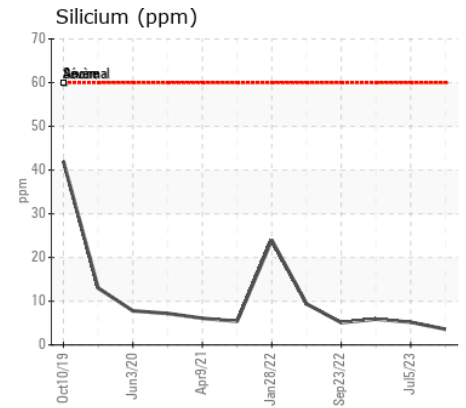
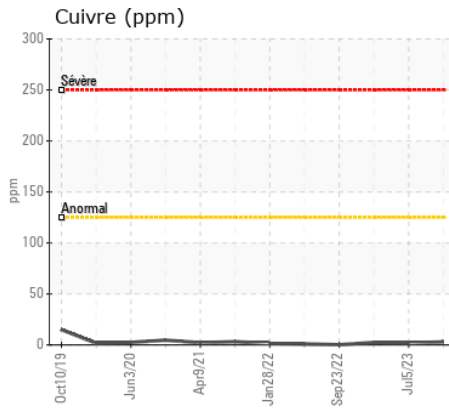
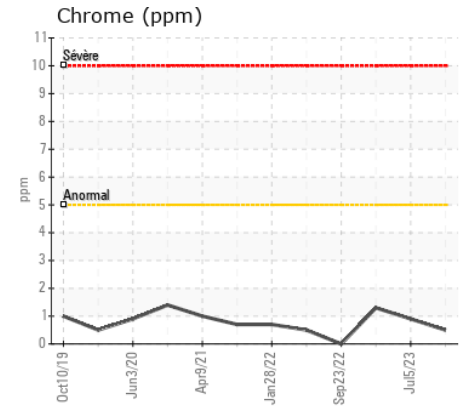
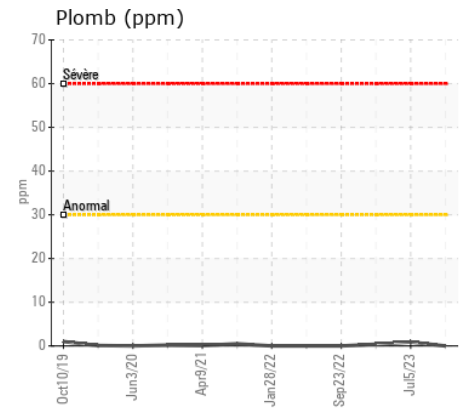
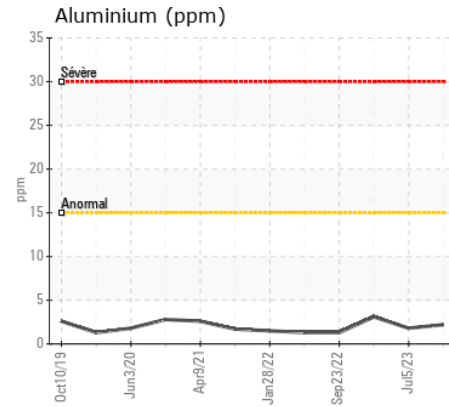
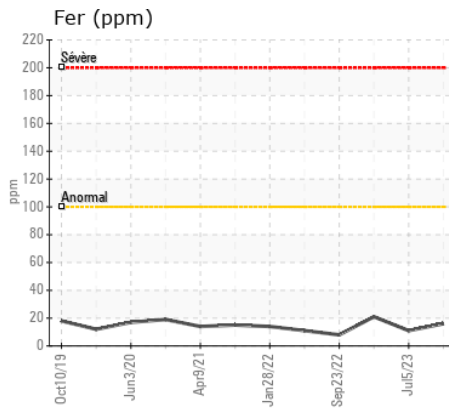
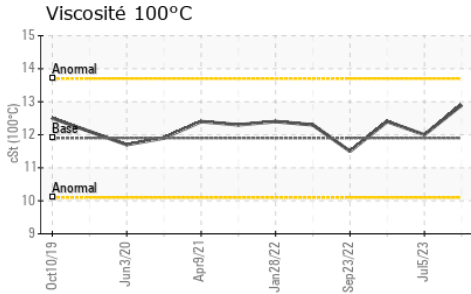
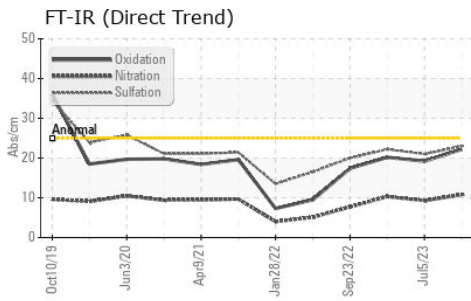
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Il n'y a aucun indice de contamination dans l'huile.

Silicium	ppm	ASTM D5185(m)	>60	<b>4</b>	5	6
Potassium	ppm	ASTM D5185(m)	>20	<b>7</b>	<1	0
Essence		WC Method	>5	<b>&lt;1.0</b>	0.6	<1.0
L'eau		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
% de suie	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.8</b>	9.3	10.3
Sulfatation	Abs/.1mm	ASTM D7415*	>30	<b>23.0</b>	21.0	22.2
Limon	scalar	Visual*	NONE	<b>NONE</b>	---	---
Débris	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Saleté	scalar	Visual*	NONE	<b>NONE</b>	---	---
Apparence	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odeur	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Eau émulsifiée	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

### ÉTAT DU FLUIDE

L'état de l'huile est acceptable pour la durée de service.

Sodium	ppm	ASTM D5185(m)		<b>8</b>	5	6
Bore	ppm	ASTM D5185(m)	0	<b>47</b>	34	32
Baryum	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdène	ppm	ASTM D5185(m)	64	<b>64</b>	63	53
Manganèse	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Magnésium	ppm	ASTM D5185(m)	1160	<b>1125</b>	1049	986
Calcium	ppm	ASTM D5185(m)	820	<b>1065</b>	924	1193
Phosphore	ppm	ASTM D5185(m)	1160	<b>1082</b>	1050	1103
Zinc	ppm	ASTM D5185(m)	1260	<b>1311</b>	1190	1223
Soufre	ppm	ASTM D5185(m)	3000	<b>2906</b>	2717	2828
Oxydation	Abs/.1mm	ASTM D7414*	>25	<b>22.2</b>	19.2	20.2
Visc 100°C	cSt	ASTM D7279(m)	11.9	<b>12.9</b>	12.0	12.4



**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : LH  
**N° de laboratoire** : 02628701  
**Reçu** : 15 Apr 2024  
**Tested** : 15 Apr 2024  
**Numéro unique** : 5761833  
**Diagnostiqué** : 15 Apr 2024 - Wes Davis  
**Analyse** : MOB 1 ( Additional Tests: Visual )

**CENTREM**  
 1125 DES PINS O.  
 ALMA, QC  
 CA G8B 7V7  
 Contact: Service Manager

Pour discuter ce rapport, contacter le service à la clientèle au 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 La validez de los resultados y la interpretación se basan en la muestra y la información proporcionada.

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F: