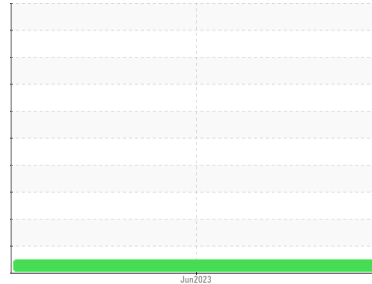




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
Garage
 Machine Id
VMC008 (S/N 2688U010918)
 Component
Electromotive Diesel
 Fluid
MOBIL DELVAC 1300 SUPER 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. (Customer Sample Comment: Huile moteur delvac 2 semaines d'utilisation)

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	history 1	history 2
Sample Number	Client Info		WC0803873	---	---
Sample Date	Client Info		15 Jun 2023	---	---
Machine Age	hrs	Client Info	20796	---	---
Oil Age	hrs	Client Info	20796	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			NORMAL	---	---

CONTAMINATION

	method	limit/base	current	history 1	history 2
Fuel	WC Method	>4.0	<1.0	---	---
Glycol	WC Method		NEG	---	---

WEAR METALS

	method	limit/base	current	history 1	history 2
PQ	ASTM D8184*		0	---	---
Iron	ppm	ASTM D5185(m) >75	7	---	---
Chromium	ppm	ASTM D5185(m) >10	<1	---	---
Nickel	ppm	ASTM D5185(m) >5	<1	---	---
Titanium	ppm	ASTM D5185(m)	<1	---	---
Silver	ppm	ASTM D5185(m) >5	0	---	---
Aluminum	ppm	ASTM D5185(m) >7	2	---	---
Lead	ppm	ASTM D5185(m) >50	0	---	---
Copper	ppm	ASTM D5185(m) >100	1	---	---
Tin	ppm	ASTM D5185(m) >10	0	---	---
Antimony	ppm	ASTM D5185(m)	0	---	---
Vanadium	ppm	ASTM D5185(m)	0	---	---
Beryllium	ppm	ASTM D5185(m)	0	---	---
Cadmium	ppm	ASTM D5185(m)	0	---	---

ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185(m)	43	---	---
Barium	ppm	ASTM D5185(m)	0	---	---
Molybdenum	ppm	ASTM D5185(m)	39	---	---
Manganese	ppm	ASTM D5185(m)	<1	---	---
Magnesium	ppm	ASTM D5185(m)	493	---	---
Calcium	ppm	ASTM D5185(m)	1620	---	---
Phosphorus	ppm	ASTM D5185(m)	764	---	---
Zinc	ppm	ASTM D5185(m)	818	---	---
Sulfur	ppm	ASTM D5185(m)	2223	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

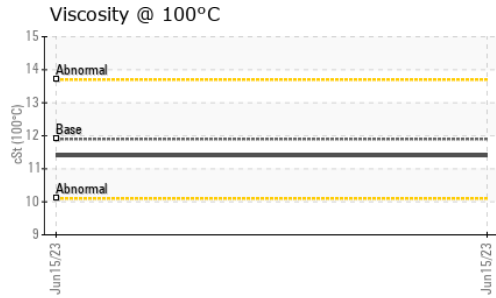
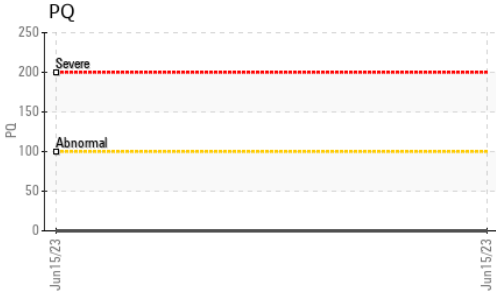
	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185(m) >5	4	---	---
Sodium	ppm	ASTM D5185(m)	4	---	---
Potassium	ppm	ASTM D5185(m) >20	<1	---	---

INFRA-RED

	method	limit/base	current	history 1	history 2
Soot %	%	ASTM D7844*	0.1	---	---
Nitration	Abs/cm	ASTM D7624* >20	6.0	---	---
Sulfation	Abs./1mm	ASTM D7415* >30	22.7	---	---



OIL ANALYSIS REPORT

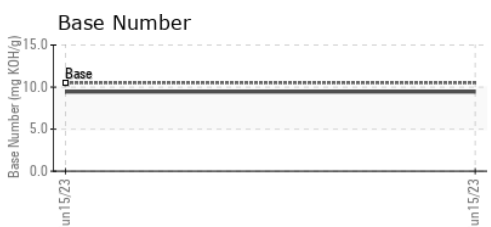
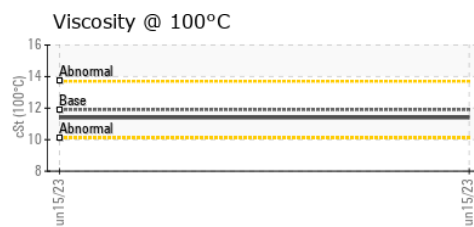
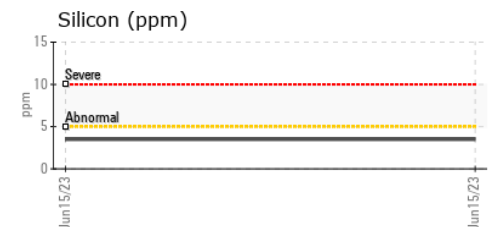
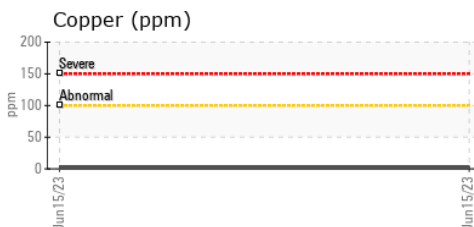
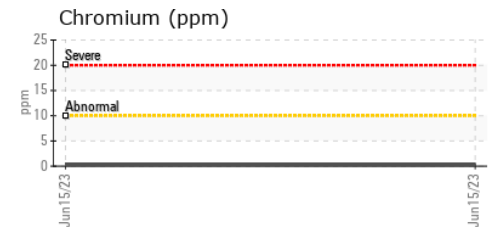
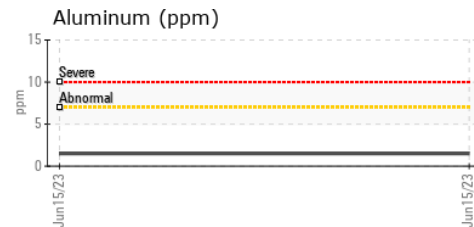
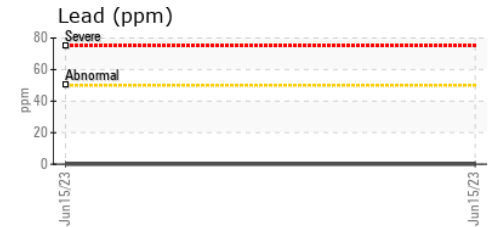
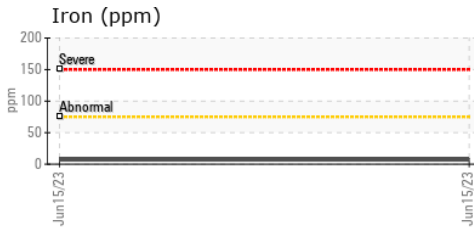


FLUID DEGRADATION	method	limit/base	current	history 1	history 2	
Oxidation	Abs./1mm	ASTM D7414*	>25	21.0	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*	10.5	9.44	---	---

VISUAL	method	limit/base	current	history 1	history 2	
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	---	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history 1	history 2	
Visc @ 100°C	cSt	ASTM D7279(m)	11.9	11.4	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0803873 **Received** : 21 Jun 2023
Lab Number : **02565438** **Diagnosed** : 21 Jun 2023
Unique Number : 5594479 **Diagnostician** : Kevin Marson
Test Package : MOB 2 (Additional Tests: PQ, Visual)

RTA - ALMA
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 ALMA, QC
 CA G8B 6T3
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 jean-denis.fortin2@riotinto.com
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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.