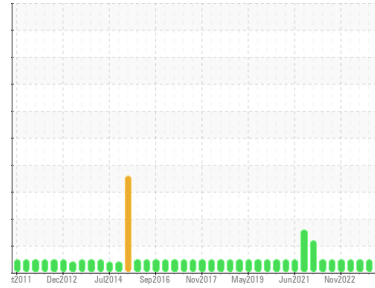




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
DECHARGEMENT
 Machine Id
ENTREPOT BAUXITE CT-4 411 (Réducteur) (S/N 408-B2-004)
 Component
Reduction Gear
 Fluid
MOBIL MOBILGEAR SHC 220 (48 LTR)

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

La teneur en eau est négligeable. Il n'y a aucun indice de contamination dans l'huile.

Fluid Condition

Le AN est acceptable pour ce fluide. L'état de l'huile permet d'en prolonger l'utilisation.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0868673	WC0841691	WC0811819
Sample Date	Client Info			14 Jan 2024	15 Oct 2023	26 Apr 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed	Client Info			N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		6	---	0
Iron	ppm	ASTM D5185(m)	>150	33	30	22
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)	>10	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)		0	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	11	12	6
Lead	ppm	ASTM D5185(m)	>100	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>50	<1	1	<1
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Antimony	ppm	ASTM D5185(m)	>5	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

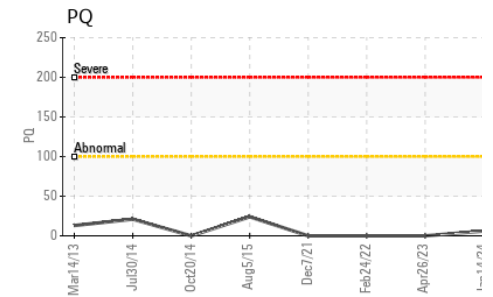
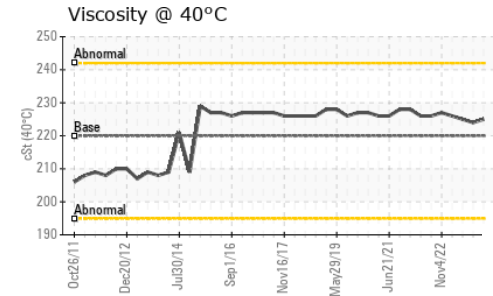
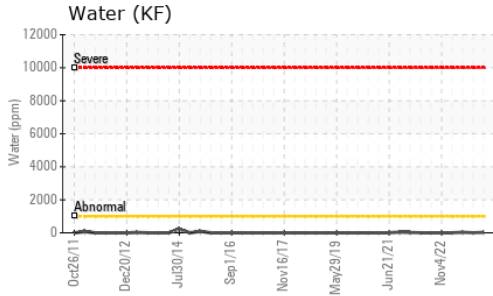
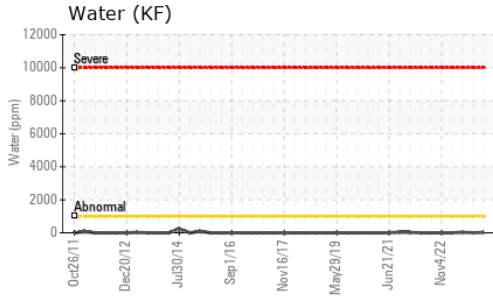
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1	1	1
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)		0	0	<1
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		6	5	5
Calcium	ppm	ASTM D5185(m)		9	9	7
Phosphorus	ppm	ASTM D5185(m)		443	431	477
Zinc	ppm	ASTM D5185(m)		13	14	13
Sulfur	ppm	ASTM D5185(m)		2091	1925	2080
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	50	49	50
Sodium	ppm	ASTM D5185(m)		0	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0
Water	%	ASTM D6304*	>0.1	0.002	---	0.003
ppm Water	ppm	ASTM D6304*	>1000	24	---	29.8

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		1.00	---	0.94



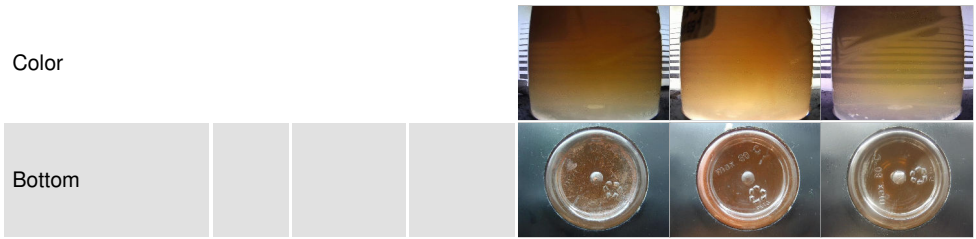
OIL ANALYSIS REPORT



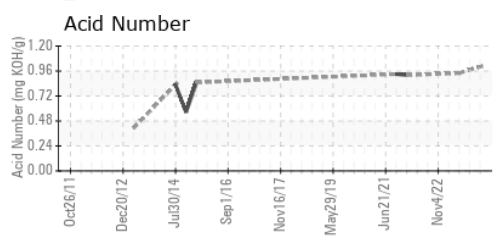
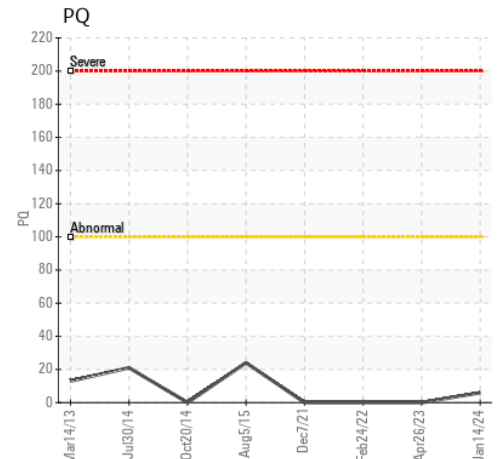
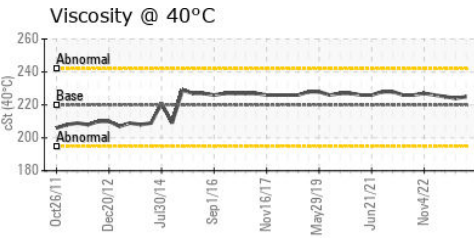
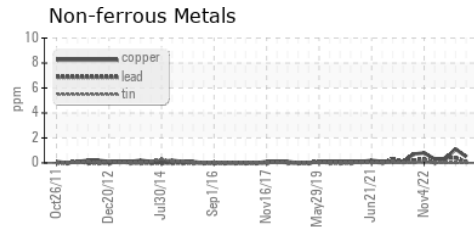
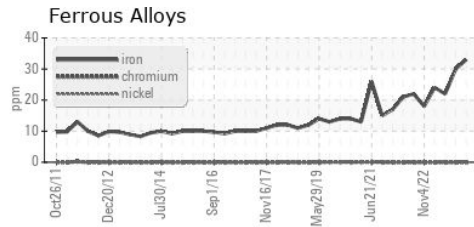
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	VLITE	LIGHT
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	220	225	224

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **Rio Tinto - USINE VAUDREUIL BHB (Mill - Aluminum)**
Sample No. : WC0868673 **Received** : 15 Jan 2024 **1955 BD. MELLON, EDIFICE 401**
Lab Number : 02608805 **Tested** : 16 Jan 2024 **JONQUIERE, QC**
Unique Number : 5709891 **Diagnosed** : 16 Jan 2024 - Kevin Marson **CA G7S 4L2**
Test Package : IND 2 (Additional Tests: KF, TAN Man) **Contact: Dany Bonneau**
To discuss this sample report, contact Customer Service at 1-800-268-2131. **dany.bonneau@riotinto.com**
Test denoted () outside scope of accreditation, (m) method modified, (e) tested at external lab.* **T: (418)718-7771**
Validity of results and interpretation are based on the sample and information as supplied. **F: (418)699-2421**