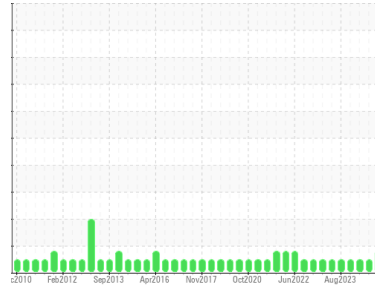




# OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area

## DECHARGEMENT

Machine Id

CONVOYEUR STRONGCO Est CT-121 SORTIE (Réducteur) (S/N 459-B2-121)

Component

Reduction Gear

Fluid

MOBIL MOBILGEAR SHC 220 (132 LTR)

### DIAGNOSIS

#### Recommendation

Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

#### Wear

Nous avons noté une forte hausse du niveau de fer. Les taux d'usure de tous les autres composants sont normaux.

#### Contamination

Il n'y a aucun indice de contamination dans l'huile.

#### Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0914864</b>	WC0914863	WC0836884
Sample Date	Client Info			<b>27 Mar 2024</b>	27 Mar 2024	05 Jan 2024
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed	Client Info			<b>N/A</b>	N/A	N/A
Sample Status				<b>ATTENTION</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	<b>NEG</b>	NEG	NEG

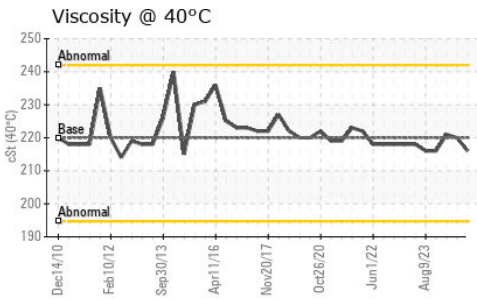
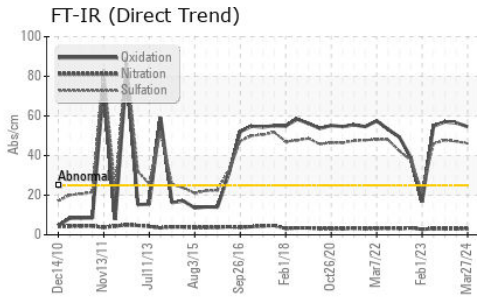
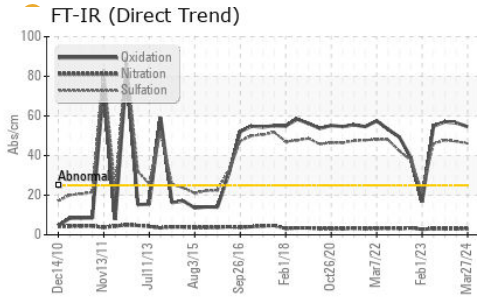
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	<b>74</b>	3	9
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>10</b>	1	5
Lead	ppm	ASTM D5185(m)	>100	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>50	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>6</b>	2	2
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Calcium	ppm	ASTM D5185(m)		<b>12</b>	<1	1
Phosphorus	ppm	ASTM D5185(m)		<b>410</b>	391	430
Zinc	ppm	ASTM D5185(m)		<b>3</b>	13	12
Sulfur	ppm	ASTM D5185(m)		<b>2080</b>	2131	2278
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	<b>23</b>	17	24
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	0
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*		<b>3.1</b>	3.0	3.1
Sulfation	Abs/.1mm	ASTM D7415*		<b>46.1</b>	47.2	47.8

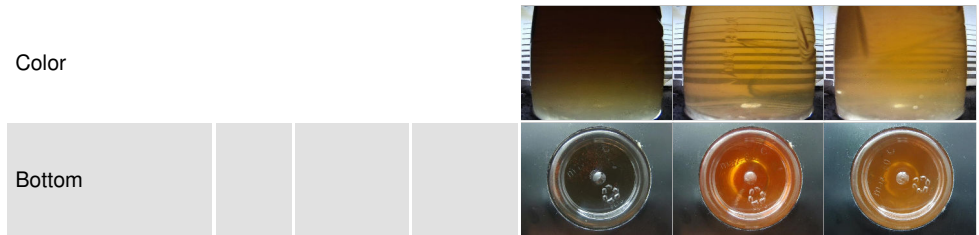
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*		<b>54.6</b>	56.5	57.1



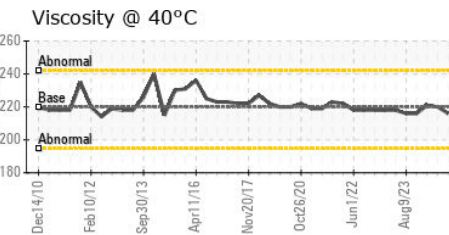
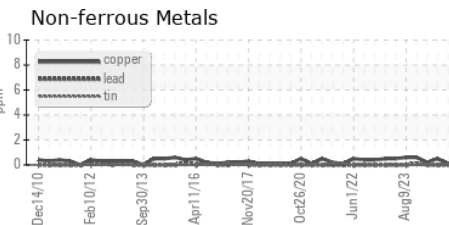
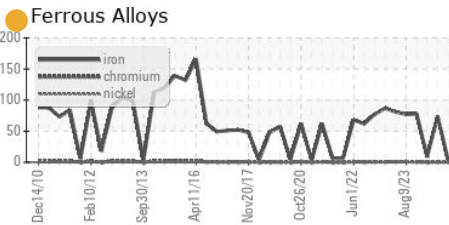
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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	216	220

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.** : WC0914864 **Received** : 08 Apr 2024 **1955 BD. MELLON, EDIFICE 401**  
**Lab Number** : **02627511** **Tested** : 09 Apr 2024 **JONQUIERE, QC**  
**Unique Number** : 5760643 **Diagnosed** : 09 Apr 2024 - Kevin Marson **CA G7S 4L2**  
**Test Package** : IND 1 ( Additional Tests: FT-IR ) **Contact:** Dany Bonneau  
**dany.bonneau@riotinto.com**

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.