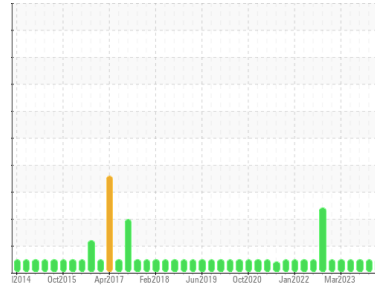




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**T.A.P**  
 Machine Id  
**52-2401-01**  
 Component  
**Reduction Gear**  
 Fluid  
**MOBIL MOBILGEAR SHC 320 (245 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 propreté du système est acceptable pour votre objectif de propreté ISO 4406. La teneur en eau est négligeable. La propreté du système et du fluide est acceptable.

### 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	<b>WC0901045</b>	WC0872704	WC0818550
Sample Date	Client Info	<b>07 Mar 2024</b>	04 Dec 2023	21 Jun 2023
Machine Age	hrs	Client Info	<b>0</b>	0
Oil Age	hrs	Client Info	<b>0</b>	0
Oil Changed	Client Info	<b>N/A</b>	Not Changd	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >117	<b>10</b>	29	25
Chromium	ppm	ASTM D5185(m) >2	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m) >11	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m) >10	<b>&lt;1</b>	2	1
Copper	ppm	ASTM D5185(m) >55	<b>6</b>	17	16
Tin	ppm	ASTM D5185(m) >15	<b>0</b>	<1	<1
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>3</b>	9	9
Barium	ppm	ASTM D5185(m)	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	<1
Calcium	ppm	ASTM D5185(m)	<b>4</b>	2	1
Phosphorus	ppm	ASTM D5185(m)	<b>415</b>	353	392
Zinc	ppm	ASTM D5185(m)	<b>8</b>	17	16
Sulfur	ppm	ASTM D5185(m)	<b>3993</b>	8004	8278
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

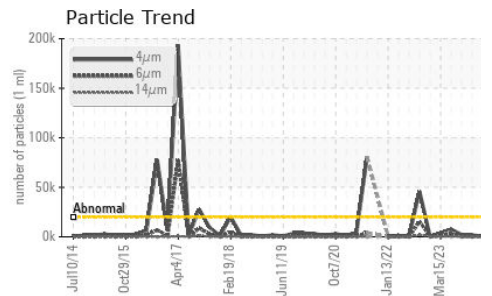
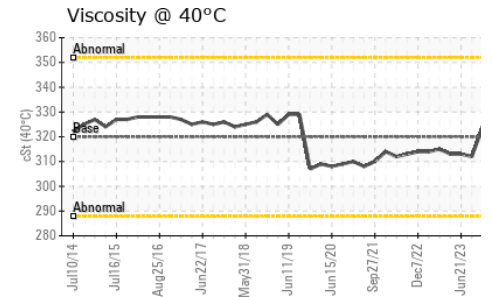
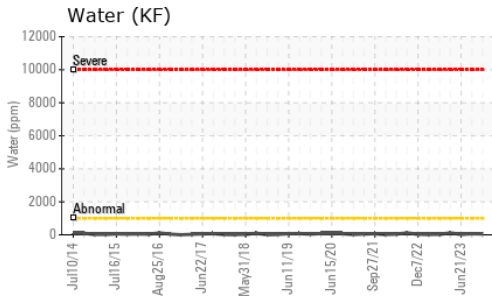
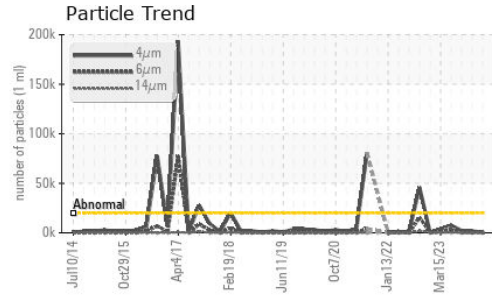
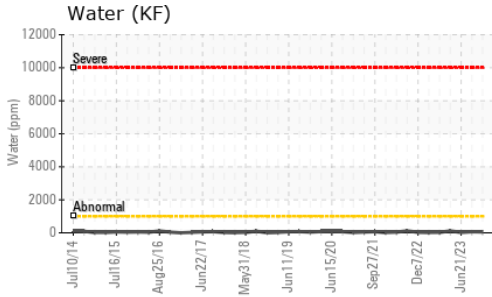
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >50	<b>6</b>	<1	1
Sodium	ppm	ASTM D5185(m)	<b>1</b>	3	2
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	0	<1
Water	%	ASTM D6304* >0.1	<b>0.005</b>	0.006	0.002
ppm Water	ppm	ASTM D6304* >1000	<b>53</b>	67	22.3

## FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>20000	<b>497</b>	1853	2289
Particles >6µm	ASTM D7647	>5000	<b>195</b>	383	659
Particles >14µm	ASTM D7647	>640	<b>27</b>	37	58
Particles >21µm	ASTM D7647	>160	<b>10</b>	13	11
Particles >38µm	ASTM D7647	>40	<b>3</b>	1	0
Particles >71µm	ASTM D7647	>10	<b>2</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>16/15/12</b>	18/16/12	18/17/13



# OIL ANALYSIS REPORT

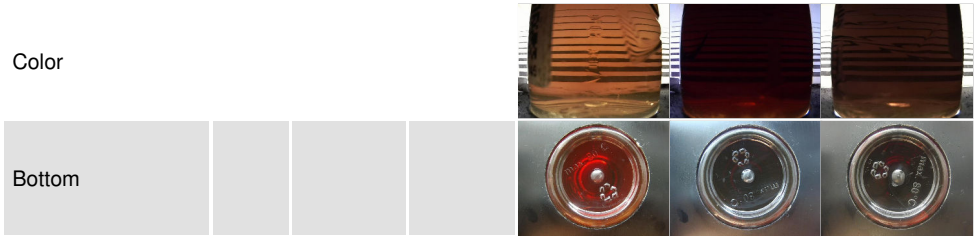


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>1.14</b>	1.41	1.30

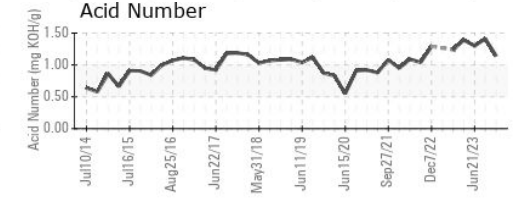
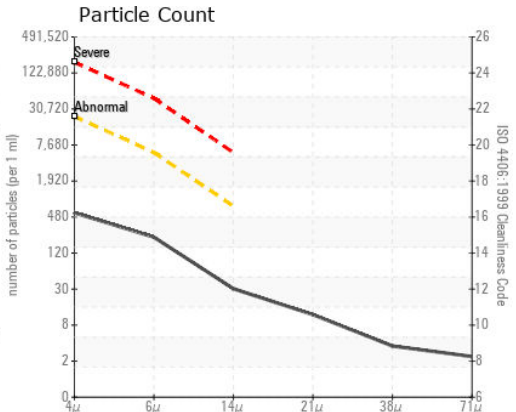
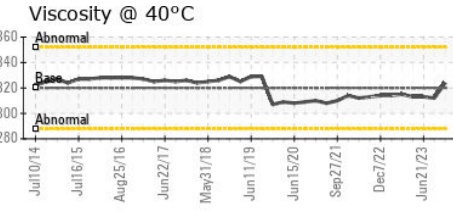
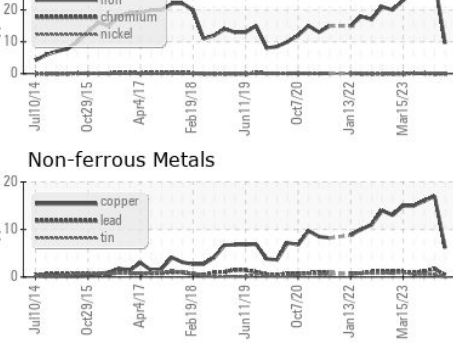
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	320	<b>324</b>	312	313

SAMPLE IMAGES		method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0901045 **Received** : 11 Mar 2024  
**Lab Number** : **02621245** **Tested** : 12 Mar 2024  
**Unique Number** : 5746364 **Diagnosed** : 12 Mar 2024 - Wes Davis  
**Test Package** : IND 2 ( Additional Tests: KF, TAN Man )

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.

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