

## **OIL ANALYSIS REPORT**

# **CHAUDIERE GS5 GS5-G4 RUNNER HUB**

Reciprocating Pump - Bearings/Crossheads

**MOBIL MOBILGEAR 600 XP 320 (100 LTR)** 





#### Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### Wear

All component wear rates are normal. The directreading & analytical ferrographic results are normal indicating no abnormal wear in the system.

#### **Contaminants**

There is no indication of any contamination in the

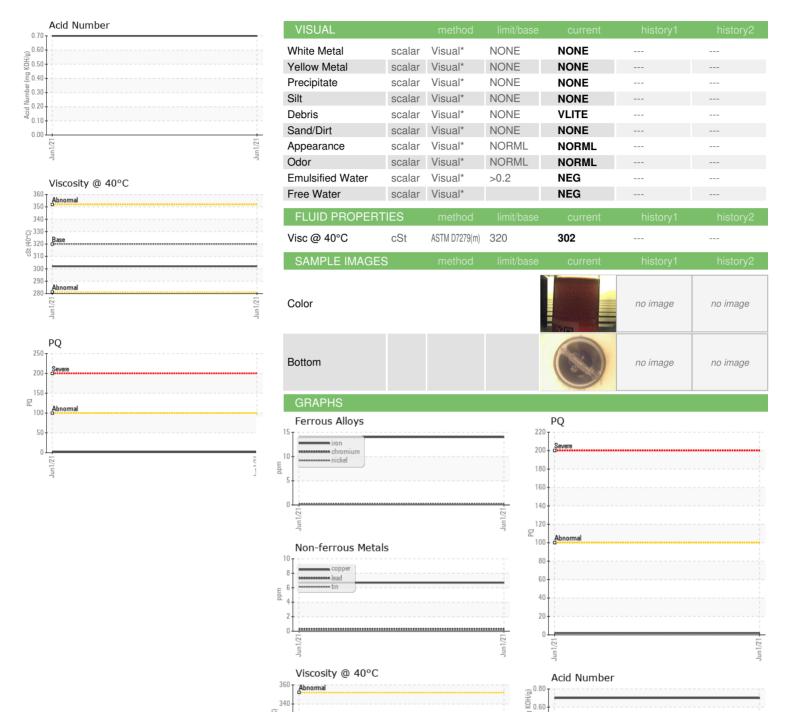
### **Oil Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

				Jun 2021		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0488766		
Sample Date		Client Info		01 Jun 2021		
Machine Age		Client Info		1		
Oil Age		Client Info		1		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	V	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		2		
Iron	ppm	ASTM D5185(m)	>200	14		
Chromium	ppm	ASTM D5185(m)	>15	<1		
Nickel	ppm	. ,	>15	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		<1		
Aluminum	ppm	ASTM D5185(m)	>25	<1		
Lead	ppm	ASTM D5185(m)	>100	<1		
Copper	ppm	ASTM D5185(m)	>200	7		
Tin	ppm		>25	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	history1	history2
Boron	n.n.m			20		
Barium	ppm	ASTM D5185(m)		0		
	ppm	ASTM D5185(m) ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)		<1		
Manganese Magnesium	ppm	ASTM D5185(III) ASTM D5185(m)		<1 <1		
Calcium	ppm	ASTM D5165(III) ASTM D5185(m)		6		
Phosphorus	ppm	ASTM D5185(III) ASTM D5185(m)		324		
Zinc	ppm	ASTM D5185(m)		4		
Sulfur	ppm	ASTM D5185(m)		14458		
Lithium	ppm	ASTM D5185(III) ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	8		
Sodium	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)	>20	<1		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.70		



## **OIL ANALYSIS REPORT**







Laboratory Sample No.

: WC0488766 Lab Number : 02431985 Unique Number : 5251509

280

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 09 Jul 2021 **Tested** : 12 Jul 2021 : 12 Jul 2021 - Kevin Marson

Diagnosed Test Package : IND 3 (Additional Tests: 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.

Portage Power - Energy Ottawa

4 Booth Street Ottawa, ON **CA K1R 6K8** 

Contact: Cheryl Gharib info@portagepower.com

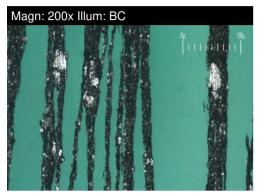
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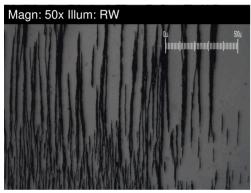


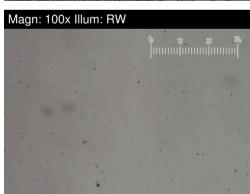
# **FERROGRAPHY REPORT**

CHAUDIERE GS5
Machine Id
GS5-G4 RUNNER HUB

Reciprocating Pump - Bearings/Crossheads
Fluid
MOBIL MOBILGEAR 600 XP 320 (100 LTR)



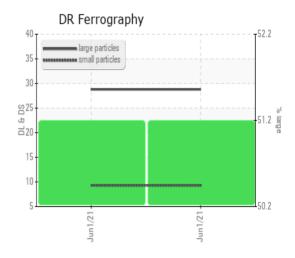




DR-FERROGRAP	HY	method	limit/base	current	history1	history2
Large Particles		DR-Ferr*		28.8		
Small Particles		DR-Ferr*		9.3		
Total Particles		DR-Ferr*	>	38.1		
Large Particles Percentage	%	DR-Ferr*		51.2		
Severity Index		DR-Ferr*		56160		
FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*		4		
Ferrous Sliding	Scale 0-10	ASTM D7684*				
Ferrous Cutting	Scale 0-10	ASTM D7684*				
Ferrous Rolling	Scale 0-10	ASTM D7684*		2		
Ferrous Break-in	Scale 0-10	ASTM D7684*				
Ferrous Spheres	Scale 0-10	ASTM D7684*				
Ferrous Black Oxides	Scale 0-10	ASTM D7684*				
Ferrous Red Oxides	Scale 0-10	ASTM D7684*				
Ferrous Corrosive	Scale 0-10	ASTM D7684*				
Ferrous Other	Scale 0-10	ASTM D7684*				
Nonferrous Rubbing	Scale 0-10	ASTM D7684*				
Nonferrous Sliding	Scale 0-10	ASTM D7684*				
Nonferrous Cutting	Scale 0-10	ASTM D7684*				
Nonferrous Rolling	Scale 0-10	ASTM D7684*				
Nonferrous Other	Scale 0-10	ASTM D7684*				
Carbonaceous Material	Scale 0-10	ASTM D7684*				
Lubricant Degradation	Scale 0-10	ASTM D7684*				
Sand/Dirt	Scale 0-10	ASTM D7684*		01		
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		01		

#### WEAR

All component wear rates are normal. The direct-reading & analytical ferrographic results are normal indicating no abnormal wear in the system.



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