

# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id 100-050 Component Left Swing Drive Fluid SAE 80W90 (--- GAL)

### DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

#### Wear

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the oil.

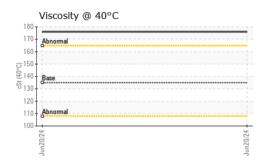
## **Fluid Condition**

The condition of the oil is acceptable for the time in service.

				Jun 2024		
SAMPLE INFORM	MATION	method				history2
Sample Number		Client Info		WC0932562		
Sample Date		Client Info		20 Jun 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>400	260		
Chromium	ppm	ASTM D5185(m)	>10	2		
Nickel	ppm	ASTM D5185(m)	>10	<1		
Titanium	ppm	ASTM D5185(m)		<1		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>25	2		
Lead	ppm	ASTM D5185(m)	>50	0		
Copper	ppm	ASTM D5185(m)	>200	<1		
Tin	ppm	ASTM D5185(m)	>10	0		
Antimony	ppm	ASTM D5185(m)	>5	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	ppm	ASTM D5185(m)	200	1		
Barium	ppm	ASTM D5185(m)	0	3		
Molybdenum	ppm	ASTM D5185(m)	0	<1		
Manganese	ppm	ASTM D5185(m)		4		
Magnesium	ppm	ASTM D5185(m)	0	2		
Calcium	ppm	ASTM D5185(m)	20	8		
Phosphorus	ppm	ASTM D5185(m)	1000	246		
Zinc	ppm	ASTM D5185(m)	20	12		
Sulfur	ppm	ASTM D5185(m)	22000	14035		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	12		
Sodium	ppm	ASTM D5185(m)	>50	2		
Potassium	ppm	ASTM D5185(m)	>20	2		



## **OIL ANALYSIS REPORT**



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	LIGHT		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	LIGHT		
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*	>0.2	NEG		
Free Water	scalar	Visual*		NEG		
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	135	176		
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image
GRAPHS						
Iron (ppm)				Lead (ppm)		
Severe Severe			200	Severe		
Abnormal			톮100	Abnormal		
0			0			
Jun20/24			27			54
E			n20/2	n20/2		n20/
*			Jun20/24	Chromium (n	am)	Jun20/24
Aluminum (ppm)			Jun20/2	Chromium (pp	om)	Jun20/
Aluminum (ppm)			30	Chromium (p	om)	Jun20/
Aluminum (ppm)  Severe Abnormal			30 E 20	Chromium (p	om)	Jun20/
Aluminum (ppm)  Severe  Abnormal			30 E 20 10	Chromium (pp	om)	
Aluminum (ppm)  Severe  Abnormal			30 E 20 10	Chromium (pp	om)	
Aluminum (ppm)  Severe  Abnormal  PORCE  TO PROPER (ppm)			9007074 200 000 000 000 000 000 000 00	Chromium (p)  Severe  Abnormal  **TORZUMA**  Silicon (ppm)	om)	Jun20/24
Aluminum (ppm)  Severe  Abnomal  Copper (ppm)			30 mqq 10 0	Abnormal  Abnormal  PROGRAM  Silicon (ppm)	om)	
Aluminum (ppm)  Severe  Abnomal  Copper (ppm)			9007074 200 000 000 000 000 000 000 00	Abnormal  Silicon (ppm)	om)	
Aluminum (ppm)  Severe  Abnormal  Copper (ppm)  Severe  Abnormal  Abnormal  Abnormal			150 mg 200 mg 300 mg 450 mg 500 mg 50	Abnormal  Silicon (ppm)	om)	Jun20/24
Aluminum (ppm)  Severe  Abnormal  Copper (ppm)  Severe  Abnormal  Abnormal			150 mg 200 mg 300 mg 450 mg 500 mg 50	Chromium (pp	om)	Jun20/24
Aluminum (ppm)  Severe  Abnomal  Copper (ppm)  Severe  Abnomal  Viscosity @ 40°C			42/02/02/24 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Abnormal  Silicon (ppm)	om)	
Aluminum (ppm)  Severe  Copper (ppm)  Severe  Abnomal  Viscosity @ 40°C			45/02mnf 1500 mdd 500 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Chromium (pp	om)	Jun20/24
Aluminum (ppm)  Severe  Abnormal  Copper (ppm)  Severe  Abnormal  Viscosity @ 40°C  Abnormal  Face of the positive of the posi			300 mqq 100 mqq 200 mqq 300 mq	Chromium (pp		Jun20/24
Aluminum (ppm)  Severe  Aluminum (ppm)  Aluminum (ppm)  Copper (ppm)  Severe  Aluminum (ppm)  Aluminum (ppm)			45/002ml 1500 mqq 1000 mqq 1000 mqqq 1000 mqqq	Chromium (pp		Jun20/24



CALA ISO 17025:2017 Accredited Laboratory

Laboratory

**Sample No.** : WC0932562 Lab Number : 02647179 Unique Number : 5812731

Test Package : MOBCE

mdd

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 RONI/IRON SHORE EXCAVATING LTD.

Received Tested Diagnosed

: 10 Jul 2024 : 10 Jul 2024

: 10 Jul 2024 - Wes Davis

100 MACINTOSH BLVD VAUGHAN, ON

CA L4K 4P3 Contact: Service Team service.team@roni.ca

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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