WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL NORMAL NORMAL**

IRON SHORING

100-028

Swing Drive

{not provided} (--- GAL)

REC			ATION
RFC.	. () (// ()	/	

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 80W90 Gear Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample.

				/		
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0286940		
Sample Date		Client Info		03 Apr 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		N/A		
Sample Status				ABNORMAL		
Iron	ppm	ASTM D5185(m)	>400	100		
Chromium	ppm	ASTM D5185(m)	>10	0		
Nickel	ppm	ASTM D5185(m)	>10	0		

WEAR

Copper and tin ppm levels are abnormal. Bearing and/or bushing wear is indicated.

Chromium	ppm	ASTIVI DOTRO(III)	>10	U	
Nickel	ppm	ASTM D5185(m)	>10	0	
Titanium	ppm	ASTM D5185(m)		0	
Silver	ppm	ASTM D5185(m)		0	
Aluminum	ppm	ASTM D5185(m)	>25	0	
Lead	ppm	ASTM D5185(m)	>50	10	
Copper	ppm	ASTM D5185(m)	>200	417	
Tin	ppm	ASTM D5185(m)	>10	<u> </u>	
Vanadium	ppm	ASTM D5185(m)		0	
White Metal	scalar	Visual*	NONE	VLITE	
Yellow Metal	scalar	Visual*	NONE	NONE	

CONTAMINATION

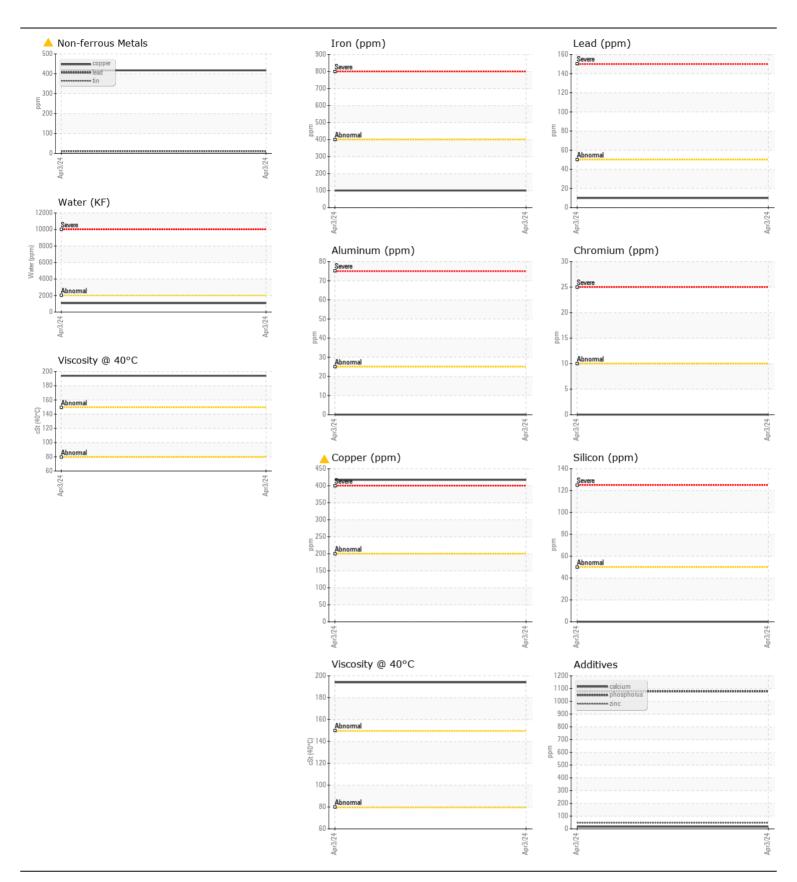
The water content is negligible. There is no indication of any contamination in the oil.

					 	-
Silicon	ppm	ASTM D5185(m)	>50	0	 	
Potassium p	ppm	ASTM D5185(m)	>20	1	 	
Water	%	ASTM D6304*	>0.2	0.107	 	
ppm Water p	ppm	ASTM D6304*	>2000	1074	 	
Silt	scalar	Visual*	NONE	VLITE	 	
Debris	scalar	Visual*	NONE	VLITE	 	
Sand/Dirt s	scalar	Visual*	NONE	NONE	 	
Appearance	scalar	Visual*	NORML	NORML	 	
Odor	scalar	Visual*	NORML	NORML	 	
Emulsified Water	scalar	Visual*	>0.2	.2%	 	
Sodium	ppm	ASTM D5185(m)		<1	 	
Davas		ACTM DE10E(++)		^		

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

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	Sodium	ppm	ASTM D5185(m)		<1		
	Boron	ppm	ASTM D5185(m)		2		
	Barium	ppm	ASTM D5185(m)		3		
	Molybdenum	ppm	ASTM D5185(m)		0		
	Manganese	ppm	ASTM D5185(m)		3		
	Magnesium	ppm	ASTM D5185(m)		1		
	Calcium	ppm	ASTM D5185(m)		17		
	Phosphorus	ppm	ASTM D5185(m)		1078		
	Zinc	ppm	ASTM D5185(m)		47		
	Sulfur	ppm	ASTM D5185(m)		23854		
	Visc @ 40°C	cSt	ASTM D7279(m)		194		
			Con	tact/Loca	ation: Nathar	Fernandes	- BONVALL





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02626713

: LH0286940

Received **Tested** Unique Number : 5759845 Diagnosed Test Package: MOB 1 (Additional Tests: KF)

: 04 Apr 2024 : 10 Apr 2024

: 10 Apr 2024 - Kevin Marson

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 RONI/IRON SHORE EXCAVATING LTD. 100 MACINTOSH BLVD VAUGHAN, ON **CA L4K 4P3**

Contact: Nathan Fernandes nfernandes@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.

Contact/Location: Nathan Fernandes - RONVAU

T:

F: