

# **OIL ANALYSIS REPORT**

Leland Industries - L03100 A2312024

Component **Cutting Fluid** 

NOT GIVEN (--- GAL)

# Sample Rating Trend NORMAL

### Recommendation

This is a baseline read-out on the submitted sample.

### Wear

Iron ppm levels are noted.

## Contamination

{not applicable}

## **Fluid Condition**

{not applicable}

Coli Changed   Client Info   N/A     NORMAL     NORMAL   NEG     NORMAL   NEG   NORMAL   NE							*
SAMPLE INFORMATION   method   milt/base   current   history1   history2   machine ID   Cilent Info   A2312024					Dec2023		
Batch #   Client Info   2023 11 0840   .	SAMPLE INFORM	/ATION	method			history1	history2
Machine   D							,=
Department							
Client Info							
Production Stage   Client Info   Initial							
Sent to WC   Client Info   12/05/2023     Sample Number   Client Info   E30000879     Sample Date   Client Info   05 Dec 2023	•						
Sample Number   Client Info   Collect Info   Coll							
Sample Date   Client Info   05 Dec 2023							
Machine Age         hrs         Client Info         0	•						
Oil Age         hrs         Client Info         N/A             Oil Changed         Client Info         N/A             Sample Status         NORMAL             CONTAMINATION         method         Imit/base         current         history1         history2           Water         WC Method         NEG             WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM 05185(m)         0             Chromium         ppm         ASTM 05185(m)         0             Chromium         ppm         ASTM 05185(m)         0             Silver         ppm         ASTM 05185(m)         0             Aluminum         ppm         ASTM 05185(m)         2             Aluminum         ppm         ASTM 05185(m)         0             Copper         ppm         ASTM 05185(m)         0             Copper         p	•						
Coli Changed   Client Info   N/A		hrs	Client Info				
NORMAL	Oil Age	hrs	Client Info		-		
CONTAMINATION         method         limit/base         current         history1         history2           Water         WC Method         NEG             WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185(m)         34             Chromium         ppm         ASTM D5185(m)         0             Nickel         ppm         ASTM D5185(m)         0             Silver         ppm         ASTM D5185(m)         2             Aluminum         ppm         ASTM D5185(m)         2             Aluminum         ppm         ASTM D5185(m)         2             Aluminum         ppm         ASTM D5185(m)         7             Lead         ppm         ASTM D5185(m)         0             Copper         ppm         ASTM D5185(m)         0             Tin         ppm         ASTM D5185(m)         0	Oil Changed		Client Info		N/A		
Water         WC Method         NEG	Sample Status				NORMAL		
WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185(m)         34             Chromium         ppm         ASTM D5185(m)         0             Nickel         ppm         ASTM D5185(m)         0             Silver         ppm         ASTM D5185(m)         <1	CONTAMINATIO	N	method	limit/base	current	history1	history2
Contromium	Water		WC Method		NEG		
Chromium         ppm         ASTM D5185(m)         0             Nickel         ppm         ASTM D5185(m)         1             Titanium         ppm         ASTM D5185(m)         0             Silver         ppm         ASTM D5185(m)         2             Aluminum         ppm         ASTM D5185(m)         2             Lead         ppm         ASTM D5185(m)         7             Copper         ppm         ASTM D5185(m)         0             Tin         ppm         ASTM D5185(m)         0             Antimony         ppm         ASTM D5185(m)         0             Vanadium         ppm         ASTM D5185(m)         0             Vanadium         ppm         ASTM D5185(m)         0             Beryllium         ppm         ASTM D5185(m)         0             Cadmium         ppm         ASTM D5185(m)         4        <	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185(m)		34		
Description	Chromium	ppm	ASTM D5185(m)		0		
Silver	Nickel	ppm	ASTM D5185(m)		1		
Aluminum         ppm         ASTM D5185(m)         2             Lead         ppm         ASTM D5185(m)         -1             Copper         ppm         ASTM D5185(m)         0             Tin         ppm         ASTM D5185(m)         0             Antimony         ppm         ASTM D5185(m)         0             Vanadium         ppm         ASTM D5185(m)         0             Vanadium         ppm         ASTM D5185(m)         0             Beryllium         ppm         ASTM D5185(m)         0             Cadmium         ppm         ASTM D5185(m)         6             Cadmium         ppm         ASTM D5185(m)         <1	Titanium	ppm	ASTM D5185(m)		0		
Aluminum         ppm         ASTM D5185(m)         2             Lead         ppm         ASTM D5185(m)         -1             Copper         ppm         ASTM D5185(m)         0             Tin         ppm         ASTM D5185(m)         0             Antimony         ppm         ASTM D5185(m)         0             Vanadium         ppm         ASTM D5185(m)         0             Vanadium         ppm         ASTM D5185(m)         0             Beryllium         ppm         ASTM D5185(m)         0             Cadmium         ppm         ASTM D5185(m)         6             Cadmium         ppm         ASTM D5185(m)         <1	Silver	ppm	ASTM D5185(m)		<1		
Copper	Aluminum	ppm			2		
Copper         ppm         ASTM D5185(m)         7             Tin         ppm         ASTM D5185(m)         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             Cadmium         ppm         ASTM D5185(m)         6             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         6             Barium         ppm         ASTM D5185(m)         0             Molybdenum         ppm         ASTM D5185(m)         <1	Lead	ppm			<1		
Tin	Copper		ASTM D5185(m)		7		
Antimony	Tin		, ,		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)         6             Barium         ppm         ASTM D5185(m)         <1             Molybdenum         ppm         ASTM D5185(m)         0             Manganese         ppm         ASTM D5185(m)         2             Magnesium         ppm         ASTM D5185(m)         48             Calcium         ppm         ASTM D5185(m)         156             Phosphorus         ppm         ASTM D5185(m)         120             Sulfur         ppm         ASTM D5185(m)         <1             CONTAMINANTS         method         limit/base         current <t< td=""><td>Antimony</td><td></td><td>. ,</td><td></td><td></td><td></td><td></td></t<>	Antimony		. ,				
Beryllium	•				-		
Cadmium         ppm         ASTM D5185(m)         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         6             Barium         ppm         ASTM D5185(m)         <1			. ,				
ADDITIVES	•		, ,				
Boron   ppm   ASTM D5185(m)   6		ррпп					
Barium         ppm         ASTM D5185(m)         <1             Molybdenum         ppm         ASTM D5185(m)         0             Manganese         ppm         ASTM D5185(m)         <1				limit/base		history1	history2
Molybdenum         ppm         ASTM D5185(m)         0             Manganese         ppm         ASTM D5185(m)         <1             Magnesium         ppm         ASTM D5185(m)         2             Calcium         ppm         ASTM D5185(m)         48             Phosphorus         ppm         ASTM D5185(m)         156             Zinc         ppm         ASTM D5185(m)         120             Sulfur         ppm         ASTM D5185(m)         2989             Lithium         ppm         ASTM D5185(m)         <1             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         4             Sodium         ppm         ASTM D5185(m)         12			. ,		6		
Manganese         ppm         ASTM D5185(m)         <1             Magnesium         ppm         ASTM D5185(m)         2             Calcium         ppm         ASTM D5185(m)         48             Phosphorus         ppm         ASTM D5185(m)         156             Zinc         ppm         ASTM D5185(m)         120             Sulfur         ppm         ASTM D5185(m)         2989             Lithium         ppm         ASTM D5185(m)         <1		ppm	1 /		<1		
Magnesium         ppm         ASTM D5185(m)         2             Calcium         ppm         ASTM D5185(m)         48             Phosphorus         ppm         ASTM D5185(m)         156             Zinc         ppm         ASTM D5185(m)         120             Sulfur         ppm         ASTM D5185(m)         2989             Lithium         ppm         ASTM D5185(m)         <1		ppm			0		
Calcium         ppm         ASTM D5185(m)         48             Phosphorus         ppm         ASTM D5185(m)         156             Zinc         ppm         ASTM D5185(m)         120             Sulfur         ppm         ASTM D5185(m)         2989             Lithium         ppm         ASTM D5185(m)         <1	Manganese	ppm	( )				
Phosphorus         ppm         ASTM D5185(m)         156             Zinc         ppm         ASTM D5185(m)         120             Sulfur         ppm         ASTM D5185(m)         2989             Lithium         ppm         ASTM D5185(m)         <1             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         4             Sodium         ppm         ASTM D5185(m)         12	Magnesium	ppm	ASTM D5185(m)		2		
Zinc         ppm         ASTM D5185(m)         120             Sulfur         ppm         ASTM D5185(m)         2989             Lithium         ppm         ASTM D5185(m)         <1             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         4             Sodium         ppm         ASTM D5185(m)         12	Calcium	ppm	ASTM D5185(m)		48		
Sulfur         ppm         ASTM D5185(m)         2989             Lithium         ppm         ASTM D5185(m)         <1             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         4             Sodium         ppm         ASTM D5185(m)         12	Phosphorus	ppm	ASTM D5185(m)		156		
Sulfur         ppm         ASTM D5185(m)         2989             Lithium         ppm         ASTM D5185(m)         <1             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         4             Sodium         ppm         ASTM D5185(m)         12	Zinc	ppm	ASTM D5185(m)		120		
Lithium         ppm         ASTM D5185(m)         <1             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         4             Sodium         ppm         ASTM D5185(m)         12	Sulfur		ASTM D5185(m)		2989		
Silicon         ppm         ASTM D5185(m)         4             Sodium         ppm         ASTM D5185(m)         12	Lithium		ASTM D5185(m)		<1		
Sodium         ppm         ASTM D5185(m)         12	CONTAMINANTS	3	method	limit/base	current	history1	history2
Sodium         ppm         ASTM D5185(m)         12	Silicon	ppm	ASTM D5185(m)		4		
	Sodium		ASTM D5185(m)		12		
	Potassium		, ,	>20	7		



# **OIL ANALYSIS REPORT**

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	VLITE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image
GRAPHS						



CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number

Unique Number : 5694822 Test Package : TEST ( Additional Tests: ICP )

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : E30000879 Received : 02601737

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.

: 07 Dec 2023 : 11 Dec 2023 Diagnosed Diagnostician : Tatiana Sorkina

To discuss this sample report, contact Customer Service at 1-905-372-2251.

Cobourg, ON CA K9A 5H5 Contact: Tatiana Sorkina tsorkina@e360s.ca T: (800)263-3939 F: (905)373-4950

640 Victoria Street

**Environmental 360 Solutions Ltd.** 

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Contact/Location: Tatiana Sorkina - CHECOB