

# **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL

## Area CPK - D00200 [2] Machine Id A2309005

Component Hydraulic System Fluid NOT GIVEN (--- GAL)

#### DIAGNOSIS

## Recommendation

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

Wear

{not applicable}

Contamination {not applicable}

Fluid Condition {not applicable}

				Sep2023		
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		E30000237		
Sample Date		Client Info		01 Sep 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	<1		
Chromium	ppm	ASTM D5185(m)	>10	0		
Nickel	ppm	ASTM D5185(m)	>10	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>10	0		
Lead	ppm	ASTM D5185(m)	>20	0		
Copper	ppm	ASTM D5185(m)	>20	<1		
Tin	ppm	ASTM D5185(m)	>10	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	ppm	ASTM D5185(m)		<1		
Barium	ppm	ASTM D5185(m)		0		
	ppm	A0110 D0100(11)		•		
Molybdenum	ppm	ASTM D5185(m)		0		
Molybdenum Manganese				-		
	ppm	ASTM D5185(m)		0		
Manganese	ppm ppm	ASTM D5185(m) ASTM D5185(m)		0		
Manganese Magnesium	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 0 21		
Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 0 21 15		
Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 0 21 15 394	  	
Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 0 21 15 394 460	  	
Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	0 0 21 15 394 460 885	   	
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base >15	0 0 21 15 394 460 885 <1	    	
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 0 21 15 394 460 885 <1 current	     history1	
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 0 21 15 394 460 885 <1 current <1	     history1	
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) <b>method</b> ASTM D5185(m) ASTM D5185(m)	>15	0 0 21 15 394 460 885 <1 current <1 <1	     history1	
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	>15 >20	0 0 21 15 394 460 885 <1 current <1 <1 <1 <1	     history1  	     history2  
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	>15 >20 limit/base	0 0 21 15 394 460 885 <1 current <1 <1 <1 <1 <1 <1 <1	     history1   history1	    history2   history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	>15 >20 limit/base NONE	0 0 21 15 394 460 885 <1 <i>current</i> <1 <1 <1 <1 <1 <1 <1 <1 <i>current</i>	     history1   history1 	    history2   history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) Visual*	>15 >20 limit/base NONE NONE	0 0 21 15 394 460 885 <1 current <1 <1 <1 <1 <1 <1 <1 <1 <1 NONE NONE	     history1  history1  history1	     history2  history2  history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) Visual* Visual*	>15 >20 limit/base NONE NONE NONE	0 0 21 15 394 460 885 <1 current <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 NONE NONE NONE NONE	     history1  history1  history1	     history2  history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) Visual* Visual* Visual*	>15 >20 limit/base NONE NONE NONE NONE	0 0 21 15 394 460 885 <1	     history1   history1  history1	     history2   history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) Visual* Visual* Visual* Visual*	>15 >20 limit/base NONE NONE NONE NONE NONE	0 0 21 15 394 460 885 <1	     history1  history1  history1	     history2   history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) Visual* Visual* Visual* Visual* Visual*	>15 >20 Iimit/base NONE NONE NONE NONE NONE	0 0 21 15 394 460 885 <1	     history1   history1  history1  	     history2  history2  history2  history2



# **OIL ANALYSIS REPORT**

bpm

bpm

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image
GRAPHS					
Ferrous Alloys					
9 iron 6 7 6 4 3 2 1 0 EZ EZ EZ EZ EZ EZ EZ EZ EZ EZ		Sep 1/23			
Non-ferrous Metals					
9 8 7 6 4 3 2 1 0 EV 1 EV EV 1 EV 1 EV EV 1 EV EV EV EV EV EV EV EV EV EV		Sep1/23			

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Environmental 360 Solutions Ltd. Laboratory CALA Sample No. : E30000237 Received : 06 Sep 2023 640 Victoria Street Cobourg, ON Lab Number : 02580825 Diagnosed : 07 Sep 2023 ISO 17025:2017 Accredited Laboratory Unique Number : 5633885 Diagnostician : Tatiana Sorkina CA K9A 5H5 Test Package : TEST (Additional Tests: ICP) Contact: Fred Kosseim To discuss this sample report, contact Customer Service at 1-800-268-2131. fkosseim@e360s.ca Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (905)372-2251 Validity of results and interpretation are based on the sample and information as supplied. F: (905)372-1658

Contact/Location: Fred Kosseim - CHECOB