

OIL ANALYSIS REPORT

Sample Rating Trend



ČPK - D00200 [4] A2309007

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

Recommendation

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

Wear

{not applicable}

Contamination {not applicable}

Fluid Condition {not applicable}

		-		Sep2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		E30000239		
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
	nnm				,	,
Iron Chromium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	>20 >10	<1 <1		
Nickel		ASTM D5185(m) ASTM D5185(m)	>10	< 1 0		
Titanium	ppm ppm	ASTM D5185(m)	210	0		
Silver	ppm	ASTM D5185(m) ASTM D5185(m)		0 <1		
Aluminum	ppm	ASTM D5185(m)	>10	< 1		
Lead	ppm	ASTM D5185(m) ASTM D5185(m)	>20	۰ <1		
Copper	ppm	ASTM D5185(m)		<1		
Tin	ppm	ASTM D5185(m) ASTM D5185(m)	>20	0		
Antimony	ppm	ASTM D5185(m)	>10	0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
oddiniani	ppiii					
ADDITIVES		method	limit/base		history1	history2
	ppm		limit/base		history1	history2
Boron	ppm ppm	method	limit/base	current		
Boron Barium		method ASTM D5185(m)	limit/base	current <1		
Boron Barium Molybdenum	ppm	method ASTM D5185(m) ASTM D5185(m)	limit/base	current <1 0		
Boron Barium Molybdenum Manganese	ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	current <1 0 0		
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	current <1 0 0 0		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	Current <1 0 0 0 95 90 454		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	Current <1 0 0 0 95 90	 	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base	Current <1 0 0 0 95 90 454	 	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	Current <1 0 0 0 95 90 454 494		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base	Current <1 0 0 95 90 454 494 1079 <1		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)		Current <1 0 0 95 90 454 494 1079 <1		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base	Current <1 0 0 95 90 454 494 1079 <1 Current	 history1	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base	Current <1 0 0 95 90 454 494 1079 <1 Current	 history1 	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base >15 >20	<1 0 0 0 95 90 454 494 1079 <1 current <1 <1 <1 <1 <1 <1 <1	 history1	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base >15 >20 limit/base	Current <1 0 0 95 90 454 494 1079 <1 Current <1 <1 <1 <1 <1 <1 <1 <1 <1	 history1 history1	 history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base >15 >20 limit/base NONE	Current <1 0 0 95 90 454 494 1079 <1 Current <1 <1 <1 <1 <1 <1 <1 <1 NONE	 history1 history1	 history2 history2
Boron Barium Molybdenum 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	method ASTM D5185(m) ASTM D5185(m) <	limit/base >15 >20 limit/base NONE NONE	Current <1 0 0 95 90 454 494 1079 <1 Current <1 <1 <1 <1 <1 <1 <1 <1 Current NONE NONE	 history1 history1 history1	 history2 history2 history2
Boron Barium Molybdenum 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	method ASTM D5185(m) Visual* Visual*	limit/base >15 >20 limit/base NONE NONE NONE	Current <1 0 0 95 90 454 494 1079 <1 Current <1 <1 <1 <1 <1 <1 <1 <1 Current NONE NONE NONE NONE	 history1 history1	 history2 history2
Boron Barium Molybdenum 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	method ASTM D5185(m) VISUAL* Visual* Visual* Visual* Visual*	limit/base >15 >20 Imit/base NONE NONE NONE NONE NONE	Current <1 0 0 95 90 454 494 1079 <1 current <1 <1 <1 <1 <1 <1 <1 <1 <1 NONE NONE NONE NONE NONE	 history1 history1 history1	 history2 history2 history2
Boron Barium Molybdenum 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	method ASTM D5185(m) VISUAL* Visual* Visual* Visual* Visual* Visual*	limit/base >15 >20 limit/base NONE NONE NONE NONE NONE NONE NONE	Current <1 0 0 95 90 454 494 1079 <1 current <1 <1 <1 <1 <1 <1 <1 NONE NONE NONE NONE NONE NONE VLITE	 history1 history1	 history2 history2 history2
Boron Barium Molybdenum 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	method ASTM D5185(m) VISUAL Visual* Visual* Visual* Visual* Visual* Visual*	Iimit/base >15 >20 Imit/base NONE	Current <1 0 0 95 90 454 494 1079 <1 Current <1 <1 <1 <1 <1 <1 Current NONE NONE NONE NONE NONE NONE NONE NONE	 history1 history1 	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) VISUAL* Visual* Visual* Visual* Visual* Visual*	limit/base >15 >20 limit/base NONE NONE NONE NONE NONE NONE NONE	Current <1 0 0 95 90 454 494 1079 <1 current <1 <1 <1 <1 <1 <1 <1 NONE NONE NONE NONE NONE NONE VLITE	 history1 history1	



OIL ANALYSIS REPORT

bpm

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SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			239	no image	no image
Bottom				no image	no image
GRAPHS					
Ferrous Alloys					
10 9 8 7 6 5 4 3 2 1 0 10 10 10 10 10 10 10 10		Sep1/23			
Non-ferrous Metals					
9 copper 8 tin 7 tin 6 tin 5 tin 4 tin 2 tin 0 tin 1 tin		Sep1/23 4			

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Environmental 360 Solutions Ltd. Laboratory CALA Sample No. : E30000239 Received : 06 Sep 2023 640 Victoria Street Cobourg, ON Lab Number : 02580823 Diagnosed : 07 Sep 2023 ISO 17025:2017 Accredited Laboratory Unique Number : 5633883 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