

OIL ANALYSIS REPORT

SPS - **S00100** A2309192

Component **Lube System**

NOT GIVEN (--- GAL)





DIAGNOSIS

Recommendation

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

Wear

Iron and nickel ppm levels are noted.

Contamination

Silicon ppm levels are notably high.

Fluid Condition

{not applicable}

Batch # Client Info					Sep2023		
Machine ID	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Department Client Info Production	Batch #		Client Info		2023 09 0250		
Sample From	Machine ID		Client Info		A2309192		
Production Stage Client Info Initial	Department		Client Info		Production		
Sent to WC Client Info Client Info Client Info E30000444 Client Info E30000444 Client Info E30000444 Client Info Client	Sample From		Client Info		Machine		
Sample Number Client Info E30000444 Sample Date Client Info 29 Sep 2023	Production Stage		Client Info		Initial		
Sample Date Client Info 29 Sep 2023	Sent to WC		Client Info		09/29/2023		
Machine Age hrs Client Info 0	Sample Number				E30000444		
Oil Age hrs Client Info 0 Oil Changed Client Info N/A Sample Status method limit/base current history1 history2 WEAR METALS method limit/base current history1 history3 PQ ASTM D8184* 0 Iron ppm ASTM D8185(m) >-10 3 Chromium ppm ASTM D8185(m) >10 3 Nickel ppm ASTM D8185(m) >10 3 Silver ppm ASTM D8185(m) >10 8 Silver ppm ASTM D8185(m) >20 3 Silver ppm ASTM D8185(m) >20 3 Aluminum ppm ASTM D8185(m) >20 4 Tin ppm ASTM D818	Sample Date		Client Info		29 Sep 2023		
Oil Changed Client Info N/A		hrs					
Sample Status ATTENTION WEAR METALS method limit/base current history PQ ASTM D8185(m) >20 147 Iron ppm ASTM D5185(m) >10 3 Chromium ppm ASTM D5185(m) >10 13 Nickel ppm ASTM D5185(m) >10 8 Titanium ppm ASTM D5185(m) >10 8 Silver ppm ASTM D5185(m) >10 8 Aluminum ppm ASTM D5185(m) >20 3 Aluminum ppm ASTM D5185(m) >20 4 Aluminum ppm ASTM D5185(m) >0 Copper ppm ASTM D5185(m) 0 <td>-</td> <td>hrs</td> <td></td> <td></td> <td>-</td> <td></td> <td></td>	-	hrs			-		
WEAR METALS method limit/base current history1 history2 PQ ASTM D81884* 0 Iron ppm ASTM D5185(m) >20 147 Chromium ppm ASTM D5185(m) >10 3 Nickel ppm ASTM D5185(m) >10 13 Titanium ppm ASTM D5185(m) >10 8 Silver ppm ASTM D5185(m) >10 8 Aluminum ppm ASTM D5185(m) >20 3 Aluminum ppm ASTM D5185(m) >20 4 Lead ppm ASTM D5185(m) >20 4 Antimony ppm ASTM D5185(m) 0 Vanadium ppm ASTM D5185(m) 0 Beryllium ppm ASTM D5185(m			Client Info				
PQ	Sample Status				ATTENTION		
Irron	WEAR METALS		method	limit/base	current	history1	history2
Chromium ppm ASTM D5185(m) >10 3 Nickel ppm ASTM D5185(m) >10 ▲ 13 Titanium ppm ASTM D5185(m) <1	PQ				0		
Nickel	-	ppm		>20	<u> </u>		
Titanium ppm ASTM D5185(m) <1	Chromium	ppm			3		
Silver ppm ASTM D5185(m) 3 Aluminum ppm ASTM D5185(m) >10 8 Lead ppm ASTM D5185(m) >20 3 Copper ppm ASTM D5185(m) >20 4 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) 2 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185(m) 35 Barium ppm ASTM D5185(m) <td>Nickel</td> <td>ppm</td> <td>(/</td> <td>>10</td> <td></td> <td></td> <td></td>	Nickel	ppm	(/	>10			
Aluminum ppm ASTM D5185(m) >10 8		ppm	()				
Lead		ppm	ASTM D5185(m)		-		
Copper ppm ASTM D5185(m) >20 4 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 history3 Boron ppm ASTM D5185(m) 2 Barium ppm ASTM D5185(m) <1			. ,				
Tin		ppm	. ,		_		
Antimony	• •				-		
Vanadium ppm ASTM D5185(m) 0 Beryllium ppm ASTM D5185(m) 0 Cadmium ppm ASTM D5185(m) 0 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185(m) 2 Barium ppm ASTM D5185(m) 35 Molybdenum ppm ASTM D5185(m) <1			,	>10	-		
Beryllium ppm ASTM D5185(m) 0 Cadmium ppm ASTM D5185(m) 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 2 Barium ppm ASTM D5185(m) 35 Molybdenum ppm ASTM D5185(m) <1 Manganese ppm ASTM D5185(m) 6 Magnesium ppm ASTM D5185(m) 5 Calcium ppm ASTM D5185(m) 44 Phosphorus ppm ASTM D5185(m) 212 Zinc ppm ASTM D5185(m) 112 Sulfur ppm ASTM D5185(m) <1 Lithium ppm ASTM D5185(m) >15 403	•		. ,				
Cadmium ppm ASTM D5185(m) 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 2 Barium ppm ASTM D5185(m) 35 Molybdenum ppm ASTM D5185(m) <1			1 /		-		
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Barium ppm ASTM D5185(m) 35 Molybdenum ppm ASTM D5185(m) <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185(m) <1	Boron	ppm	ASTM D5185(m)				
Manganese ppm ASTM D5185(m) 6 Magnesium ppm ASTM D5185(m) 5 Calcium ppm ASTM D5185(m) 44 Phosphorus ppm ASTM D5185(m) 212 Zinc ppm ASTM D5185(m) 112 Sulfur ppm ASTM D5185(m) 16963 Lithium ppm ASTM D5185(m) <1	Barium	ppm	ASTM D5185(m)		35		
Magnesium ppm ASTM D5185(m) 5 Calcium ppm ASTM D5185(m) 44 Phosphorus ppm ASTM D5185(m) 212 Zinc ppm ASTM D5185(m) 112 Sulfur ppm ASTM D5185(m) 16963 Lithium ppm ASTM D5185(m) <1	Molybdenum	ppm	. ,				
Calcium ppm ASTM D5185(m) 44 Phosphorus ppm ASTM D5185(m) 212 Zinc ppm ASTM D5185(m) 112 Sulfur ppm ASTM D5185(m) 16963 Lithium ppm ASTM D5185(m) <1	•	ppm					
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Zinc ppm ASTM D5185(m) 112 Sulfur ppm ASTM D5185(m) 16963 Lithium ppm ASTM D5185(m) <1			, ,				
Sulfur ppm ASTM D5185(m) 16963 Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history3 Silicon ppm ASTM D5185(m) >15 403							
Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history3 Silicon ppm ASTM D5185(m) >15 ▲ 403							
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 ▲ 403							
Silicon ppm ASTM D5185(m) >15 ▲ 403			ASTM D5185(m)		<1		
	CONTAMINANTS	5	method	limit/base	current	history1	history2
Sodium ppm ASTM D5185(m) 6			. ,	>15			
	Sodium	ppm	ASTM D5185(m)		6		

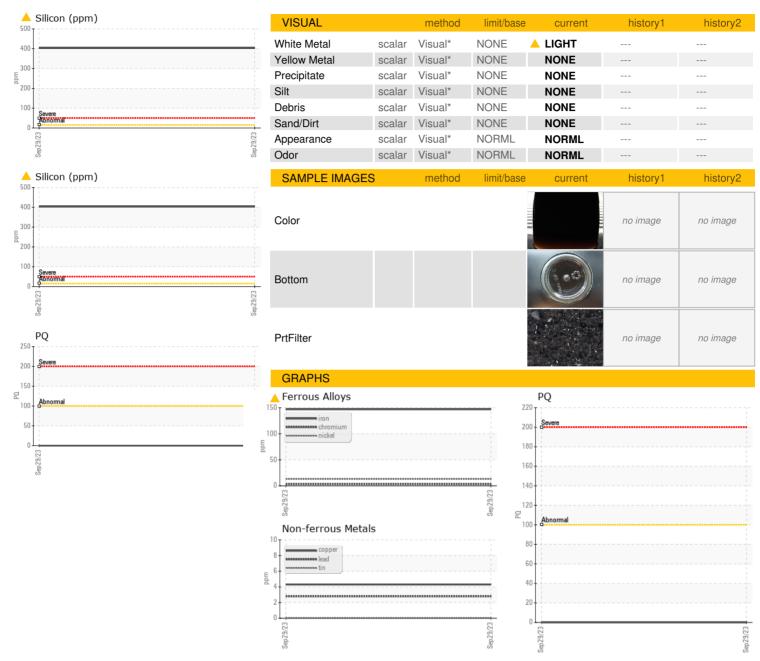
Potassium

ppm ASTM D5185(m) >20

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OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: 5655624

: E30000444 : 02586558

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

: 03 Oct 2023 : 05 Oct 2023

Diagnostician : Tatiana Sorkina

Environmental 360 Solutions Ltd. 640 Victoria Street Test Package : TEST (Additional Tests: Bottom, BottomAnalysis, FilterPatch, ICP, PQ)

Cobourg, ON CA K9A 5H5 Contact: Aylwin Lee aylwinlee@e360s.ca T: (905)372-2251

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.

F: (905)373-4950