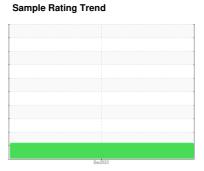


OIL ANALYSIS REPORT

Chem-Ecol A2312099

Component Chain Case

CHEM-ECOL CHAIN OIL MEDIUM (--- GAL)



ATTENTION



DIAGNOSIS	SAMPLE INFORMA	TION method		history2
A Recommendation	Batch #	Client Info	2961-A	
This is a baseline read-out on the submitted	Department	Client Info	Production	
sample.	Sample From	Client Info	Machine	
Wear	Production Stage	Client Info	Final	
Copper and iron ppm levels are noted.	Sent to WC	Client Info	12/20/2023	
▲ Contamination	Sample Number	Client Info	E30001023	
Particles >4μm are notably high. Particles >6μm	Sample Date	Client Info	20 Dec 2023	
and oil cleanliness are notably high.	Machine Age h	rs Client Info	0	
Fluid Condition	Oil Age h	rs Client Info	0	
{not applicable}	Oil Changed	Client Info	N/A	

Sample Status

WEAR ME	TALS	method			history2
Iron	ppm	ASTM D5185(m)	>150	170	
Chromium	ppm	ASTM D5185(m)	>10	<1	
Nickel	ppm	ASTM D5185(m)	>10	5	
Titanium	ppm	ASTM D5185(m)		0	
Silver	ppm	ASTM D5185(m)		0	
Aluminum	ppm	ASTM D5185(m)	>25	3	
Lead	ppm	ASTM D5185(m)	>100	2	
Copper	ppm	ASTM D5185(m)	>50	67	
Tin	ppm	ASTM D5185(m)	>10	0	
Antimony	ppm	ASTM D5185(m)	>5	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)		0		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		2		
Magnesium	ppm	ASTM D5185(m)		6		
Calcium	ppm	ASTM D5185(m)		208		
Phosphorus	ppm	ASTM D5185(m)		192		
Zinc	ppm	ASTM D5185(m)		53		
Sulfur	ppm	ASTM D5185(m)		1629		
Lithium	ppm	ASTM D5185(m)		<1		

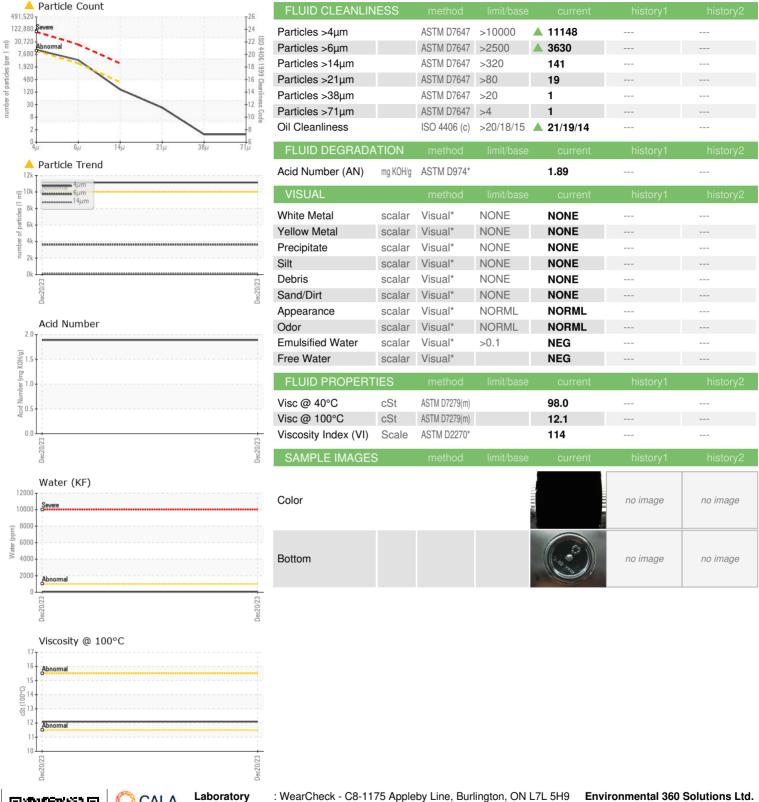
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	<1		
Sodium	ppm	ASTM D5185(m)		3		
Potassium	ppm	ASTM D5185(m)	>20	<1		
Water	%	ASTM D6304*	>0.1	0.005		
ppm Water	ppm	ASTM D6304*	>1000	53		

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OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: E30001023

+02604970: 5698055

Recieved : 22 Dec 2023 Diagnosed

: 02 Jan 2024

Diagnostician : Tatiana Sorkina Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

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

Environmental 360 Solutions Ltd.

640 Victoria Street Cobourg, ON **CA K9A 5H5** Contact: Tatiana Sorkina

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