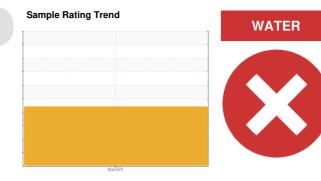


# **PROBLEM SUMMARY**

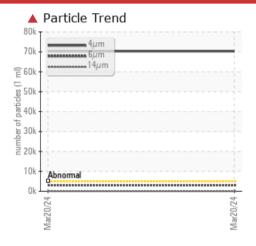
**Gerdau - 888078 AG276** 

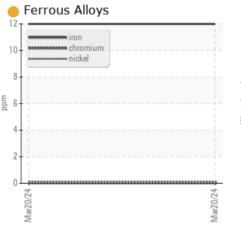
Component **Unknown Component** 

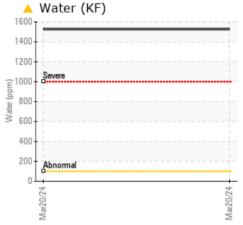
SHELL OMALA S4 GX 320 (--- GAL)



### COMPONENT CONDITION SUMMARY







### **RECOMMENDATION**

The sample submitted is 16 times dirtier than the ISO dirt count recommendation of 19/16/14.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE				
Water	%	ASTM D6304*		<u> </u>				
ppm Water	ppm	ASTM D6304*		<b>1526</b>				
Particles >4µm		ASTM D7647	>5000	<b>70301</b>				
Particles >6µm		ASTM D7647	>640	<b>3038</b>				
Oil Cleanliness		ISO 4406 (c)	>19/16/14	<b>23/19/13</b>				

Customer Id: CHECOB Sample No.: E30001729 Lab Number: 02624376 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Tatiana Sorkina +1 (800)263-3939 tsorkina@e360s.ca

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

# RECOMMENDED ACTIONS

There are no recommended actions for this sample.

### HISTORICAL DIAGNOSIS



# **OIL ANALYSIS REPORT**

**Gerdau - 888078 AG276** 

**Unknown Component** 

SHELL OMALA S4 GX 320 (--- GAL)

# Sample Rating Trend



### DIAGNOSIS

### ▲ Recommendation

The sample submitted is 16 times dirtier than the ISO dirt count recommendation of 19/16/14.

Iron ppm levels are noted.

### **▲** Contamination

Particles >4µm are abnormally high. Particles >6µm and oil cleanliness are abnormally high. Water contamination levels are marginally high. ppm Water contamination levels are marginally high.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine ID		Client Info		Stage 7 Shear		
Department		Client Info		Sales		
Sample From		Client Info		Machine		
Production Stage		Client Info		Initial		
Sent to WC		Client Info		03/21/2024		
Sample Number		Client Info		E30001729		
Sample Date		Client Info		20 Mar 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		

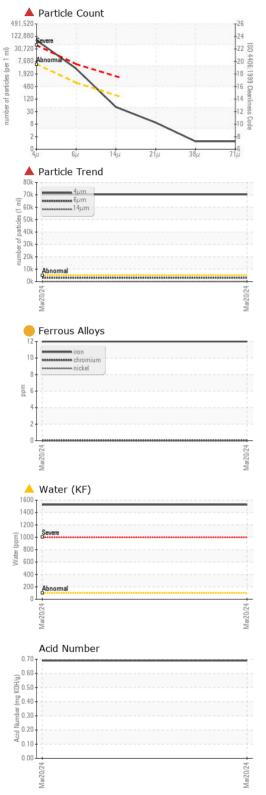
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)		12		
Chromium	ppm	ASTM D5185(m)		0		
Nickel	ppm	ASTM D5185(m)		<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)		0		
Lead	ppm	ASTM D5185(m)		0		
Copper	ppm	ASTM D5185(m)		<1		
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	mqq	ASTM D5185(m)		0		

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		17		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		<1		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		4		
Calcium	ppm	ASTM D5185(m)		11		
Phosphorus	ppm	ASTM D5185(m)		366		
Zinc	ppm	ASTM D5185(m)		10		
Sulfur	ppm	ASTM D5185(m)		4736		
Lithium	ppm	ASTM D5185(m)		<1		

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		0		
Sodium	ppm	ASTM D5185(m)		6		
Potassium	ppm	ASTM D5185(m)	>20	1		
Water	%	ASTM D6304*		<b>△</b> 0.152		
ppm Water	ppm	ASTM D6304*		<b>1526</b>		



# **OIL ANALYSIS REPORT**



FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>70301</b>		
Particles >6µm		ASTM D7647	>640	<b>△</b> 3038		
Particles >14μm		ASTM D7647	>160	44		
Particles >21µm		ASTM D7647	>40	8		
Particles >38μm		ASTM D7647	>10	1		
Particles >71μm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>19/16/14	<b>23/19/13</b>		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.69		
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	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	HAZY		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*		NEG		
Free Water	scalar	Visual*		NEG		
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	320	299		
Visc @ 100°C	cSt	ASTM D7279(m)	33.4	36.3		
Viscosity Index (VI)	Scale	ASTM D2270*	145	169		
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color					no image	no image
Dottom				max. 80°C	no imoga	no image
Bottom					no image	no image



CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Unique Number : 5749495

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Lab Number : 02624376

: E30001729

Received **Tested** 

: 26 Mar 2024 Diagnosed : 27 Mar 2024 - Tatiana Sorkina Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, TAN Man, VI)

: 25 Mar 2024

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.** 

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F: (905)373-4950

Contact/Location: Tatiana Sorkina - CHECOB