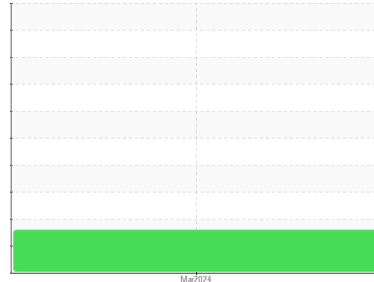




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
Gerdau - 888078
 Machine Id
AG280
 Component
Unknown Component
 Fluid
SHELL OMALA S4 GX 320 (--- GAL)

DIAGNOSIS

▲ Recommendation

The sample submitted is 2 times dirtier than the ISO dirt count recommendation of 19/16/14.

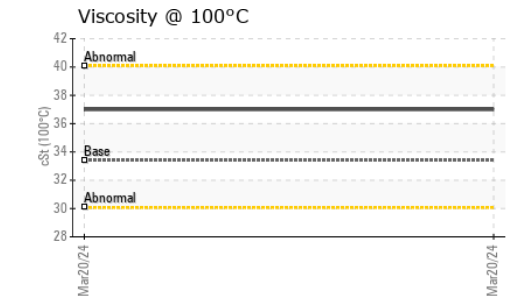
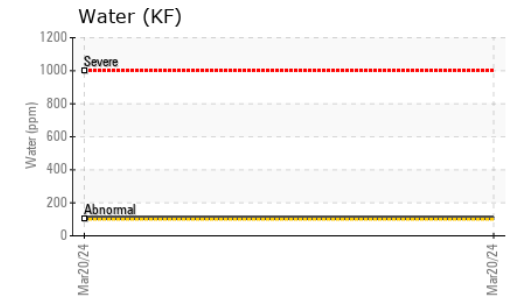
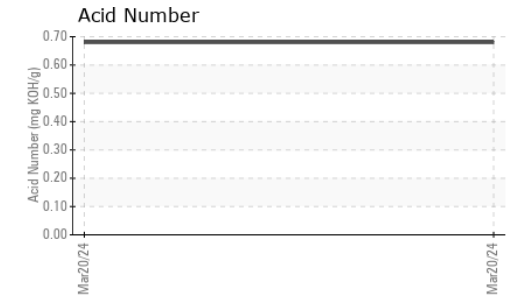
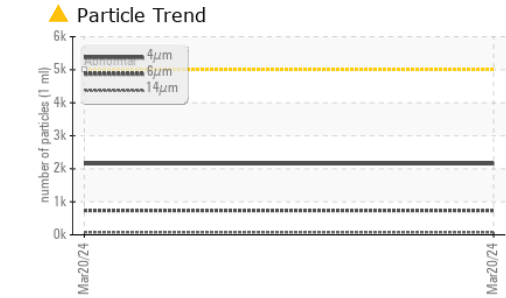
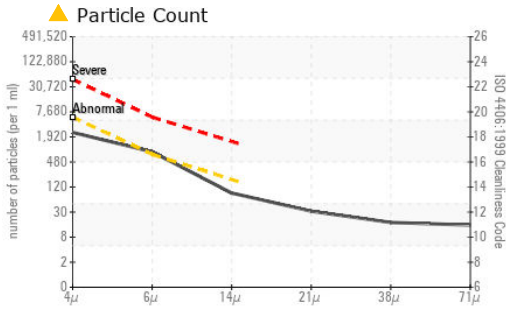
SAMPLE INFORMATION		method	limit/base	current	history1	history2
Machine ID	Client Info			Tank 320	---	---
Department	Client Info			Sales	---	---
Sample From	Client Info			Tote	---	---
Production Stage	Client Info			Virgin	---	---
Sent to WC	Client Info			03/21/2024	---	---
Sample Number	Client Info			E30001732	---	---
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				ABNORMAL	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)		<1	---	---
Chromium	ppm	ASTM D5185(m)		0	---	---
Nickel	ppm	ASTM D5185(m)		0	---	---
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)		0	---	---
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	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		31	---	---
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)		387	---	---
Zinc	ppm	ASTM D5185(m)		9	---	---
Sulfur	ppm	ASTM D5185(m)		4502	---	---
Lithium	ppm	ASTM D5185(m)		<1	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		2	---	---
Sodium	ppm	ASTM D5185(m)		0	---	---
Potassium	ppm	ASTM D5185(m)	>20	0	---	---
Water	%	ASTM D6304*		0.010	---	---
ppm Water	ppm	ASTM D6304*		106	---	---

OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : E30001732 **Received** : 25 Mar 2024
Lab Number : 02624259 **Tested** : 26 Mar 2024
Unique Number : 5749378 **Diagnosed** : 27 Mar 2024 - 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.

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	2154	---	---
Particles >6µm	ASTM D7647	>640	737	---	---
Particles >14µm	ASTM D7647	>160	76	---	---
Particles >21µm	ASTM D7647	>40	28	---	---
Particles >38µm	ASTM D7647	>10	15	---	---
Particles >71µm	ASTM D7647	>3	13	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16/14	18/17/13	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.68	---	---

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	---	---
Precipitate	scalar	Visual*	NONE	---	---
Silt	scalar	Visual*	NONE	---	---
Debris	scalar	Visual*	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	---	---
Appearance	scalar	Visual*	NORML	---	---
Odor	scalar	Visual*	NORML	---	---
Emulsified Water	scalar	Visual*	NEG	---	---
Free Water	scalar	Visual*	NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	301	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	37.0	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	172	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image