WEAR CONTAMINATION **FLUID CONDITION**

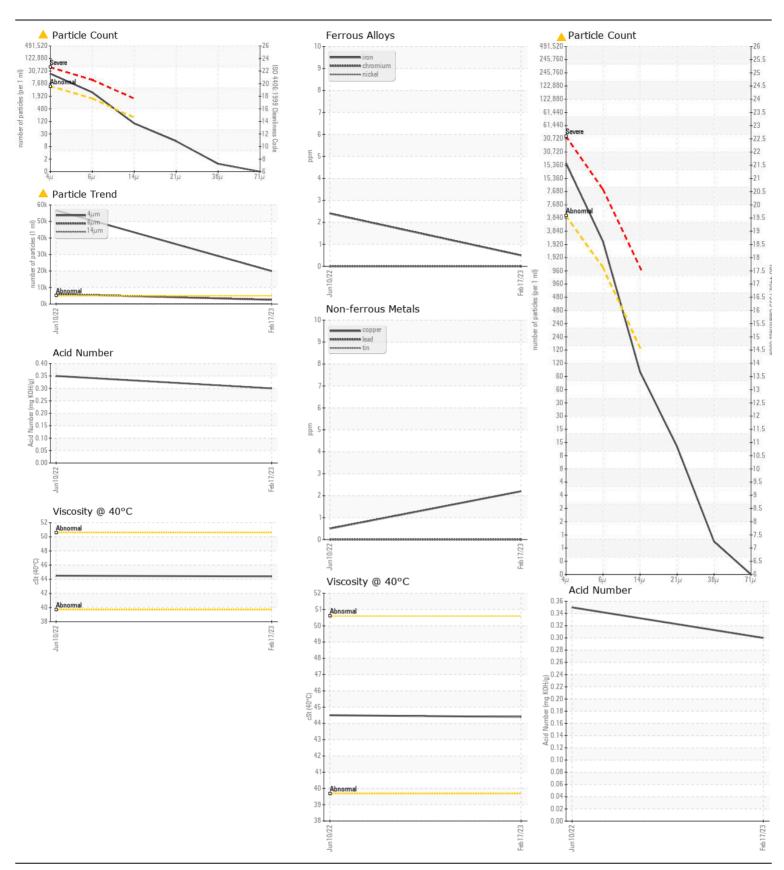
NORMAL ABNORMAL NORMAL

Machine Id

4160158

Component Hydraulic System

RANDO (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No compatible extension recommended at this flow. December 19	Sample Number		Client Info		WC0688041	WC0585384	
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		17 Feb 2023	10 Jun 2022	
	Machine Age	hrs	Client Info		0	7692	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	N/A	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status				ABNORMAL	ABNORMAL	
VEAR	Iron	ppm	ASTM D5185m	>20	<1	2	
	Chromium	ppm	ASTM D5185m	>10	0	0	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m	7.0	0	0	
	Silver	ppm	ASTM D5185m		0	<1	
	Aluminum		ASTM D5185m	>10	<1	<1	
	Lead	ppm	ASTM D5185m		0	0	
		ppm	ASTM D5185m		2	<1	
	Copper	ppm					
	Tin	ppm	ASTM D5185m	>10	0	0	
	Vanadium	ppm	ASTM D5185m	NONE	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
·	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTAMINATION	Silicon	ppm	ASTM D5185m		3	2	
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Potassium	ppm	ASTM D5185m	>20	0	0	
	Water		WC Method	>0.1	NEG	NEG	
	Particles >4μm		ASTM D7647	>5000	19930	<u>▲</u> 56705	
	Particles >6µm		ASTM D7647	>1300	2560	<u> </u>	
	Particles >14μm		ASTM D7647	>160	85	69	
	Particles >21µm		ASTM D7647	>40	12	10	
	Particles >38µm		ASTM D7647	>10	1	1	
	Particles >71μm		ASTM D7647	>3	0	0	
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 21/19/14	<u>^</u> 23/20/13	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	VLITE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water			>0.1	NEG	NEG	
LUID CONDITION	Sodium	nnm	ASTM D5185m		0	0	
LOID CONDITION	Boron	ppm	ASTM D5185m		0	<1	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m			0	
		ppm			0		
	Molybdenum	ppm	ASTM D5185m		0	0	
	Manganese	ppm	ASTM D5185m		0	0	
	Magnesium	ppm	ASTM D5185m		0	0	
	Calcium	ppm	ASTM D5185m		22	34	
	Phosphorus	ppm	ASTM D5185m		227	370	
	Zinc	ppm	ASTM D5185m		280	415	
	Sulfur	ppm	ASTM D5185m		1373	1266	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.30	0.35	
	Visc @ 40°C	cSt	ASTM D445		44.4	44.5	





Certificate L2367

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

: WC0688041 : 05800247 : 10389931 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 23 Mar 2023 Recieved Diagnosed : 28 Mar 2023 Diagnostician

: Jonathan Hester

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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