**WEAR** CONTAMINATION **FLUID CONDITION** 

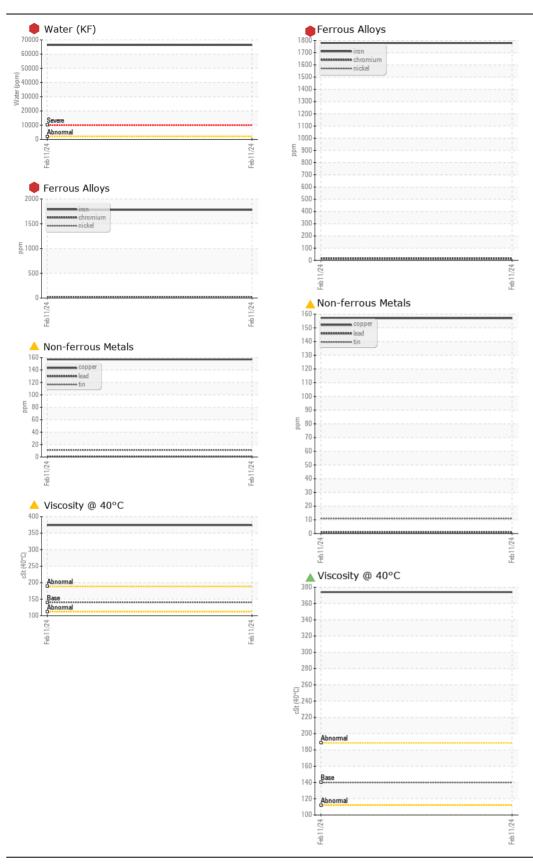
**SEVERE SEVERE ATTENTION** 

Machine Id

31103

Swing Drive

DECOMMENDATION.							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.	Sample Number		Client Info		WC0905346		
	Sample Date		Client Info		11 Feb 2024		
	Machine Age	hrs	Client Info		975		
	Oil Age	hrs	Client Info		1000		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		N/A		
	Sample Status				SEVERE		
WEAR	Iron	ppm	ASTM D5185m	>400	<b>1779</b>		
Bearing and/or gear wear is indicated.	Chromium	ppm	ASTM D5185m	>10	<u>^</u> 16		
	Nickel	ppm	ASTM D5185m		3		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>25	2		
	Lead	ppm	ASTM D5185m	>50	<1		
	Copper	ppm	ASTM D5185m	>200	<b>157</b>		
	Tin	ppm	ASTM D5185m	>10	<u> 11</u>		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	6		
There is a high concentration of water present in the oil.	Potassium	ppm	ASTM D5185m		2		
	Water	%	ASTM D6304	>0.2	<b>6.64</b>		
	ppm Water	ppm	ASTM D6304	>2000	<b>66400</b>		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	• 0.2%		
FLUID CONDITION	Sodium	nnm	ASTM D5185m		2		
	Boron	ppm	ASTM D5185m	150	15		
	Barium	ppm	ASTM D5185m	100	4		
The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants		PPIII	, 10 1 10 10 10 10 10 11		,		
The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.		nnm	ASTM D5185m		<b>-1</b>		
	Molybdenum	ppm	ASTM D5185m ASTM D5185m		<1 12		
	Molybdenum Manganese	ppm	ASTM D5185m	10	12		
	Molybdenum Manganese Magnesium	ppm	ASTM D5185m ASTM D5185m		12 15		
	Molybdenum Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	70	12 15 53		
	Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	70 2000	12 15 53 2252	 	
	Molybdenum Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	70 2000 50	12 15 53		







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

: WC0905346 Lab Number : 06088431 Unique Number: 10875876

Test Package : CONST ( Additional Tests: KF )

Received **Tested** Diagnosed

: 13 Feb 2024 : 15 Feb 2024

: 15 Feb 2024 - Sean Felton

Contact: SCOTT SULLIVAN ssullivan@sullivaneastern.com T: (919)484-8993

**SULLIVAN EASTERN INC** 

2860 C SLATER RD

MORRISVILLE, NC

US 27560

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)

F: (919)484-2136 Contact/Location: SCOTT SULLIVAN - MSCDUR