

WEAR CONTAMINATION **FLUID CONDITION**

SEVERE SEVERE NORMAL



Mobile Fleet 348 348

Component Boom Gearbox

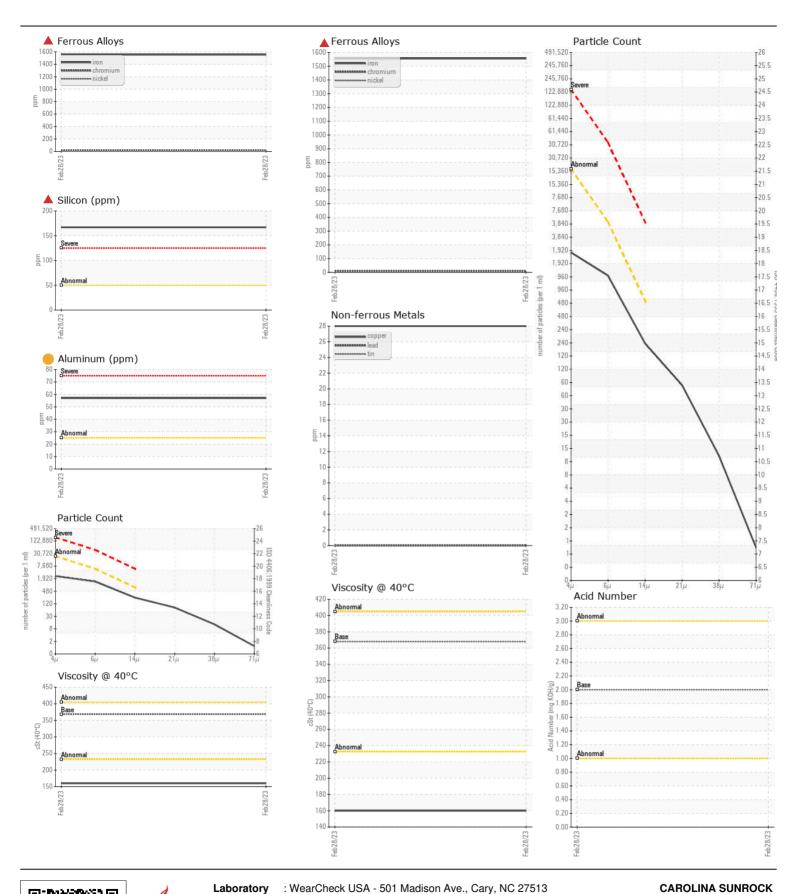
GEAR OIL SAE 85W140 (GA	L)						
We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0784713		
	Sample Date		Client Info		28 Feb 2023		
	Machine Age	hrs	Client Info		30158		
	Oil Age	hrs	Client Info		1564		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				SEVERE		
WEAR	Iron	ppm	ASTM D5185m	>200	1556		
Gear wear is indicated.	Chromium	ppm	ASTM D5185m	>10	<u> </u>		
	Nickel	ppm	ASTM D5185m	>10	4		
	Titanium	ppm	ASTM D5185m		5		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m	>25	57		
	Lead	ppm	ASTM D5185m	>50	0		
	Copper	ppm	ASTM D5185m	>200	28		
	Tin	ppm	ASTM D5185m	>10	0		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	LIGHT		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	167		
CONTAMINATION	Potassium	ppm	ASTM D5185m		12		
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. The amount and size of particulates present in the system are acceptable.	Water	PP	WC Method		NEG		
	Particles >4µm		ASTM D7647		2253		
	Particles >6µm		ASTM D7647		1227		
	Particles >14µm		ASTM D7647	>640	209		
	Particles >21µm		ASTM D7647		70		
	Particles >38µm		ASTM D7647	>40	11		
	Particles >71µm		ASTM D7647	>10	1		
	Oil Cleanliness		ISO 4406 (c)	>21/19/16	18/17/15		
	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	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		24		
The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m	400	27		
	Barium	ppm	ASTM D5185m	200	0		
	Molybdenum	ppm	ASTM D5185m	12	4		
	Manganese	ppm	ASTM D5185m		15		
	Magnesium	ppm	ASTM D5185m	12	26		
	Calcium	ppm	ASTM D5185m		392		
	Phosphorus	ppm	ASTM D5185m	1650	622		
	Zinc	ppm	ASTM D5185m	125	772		
	Sulfur	ppm	ASTM D5185m	22500	16866		
	Vi @ 4000	-04	ACTM DA45	000	400	1	

Visc @ 40°C

cSt

160

ASTM D445 368





Laboratory

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0784713 Lab Number : 05781129

Unique Number: 10360799

Tested

Diagnosed Test Package : CONST (Additional Tests: PrtCount)

Received

: 02 Mar 2023

: 03 Mar 2023

: 03 Mar 2023 - Don Baldridge

Certificate L2367 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.

Contact: Leigh Dennis rdennis@thesunrockgroup.com

T: (919)575-4505 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)575-0162

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