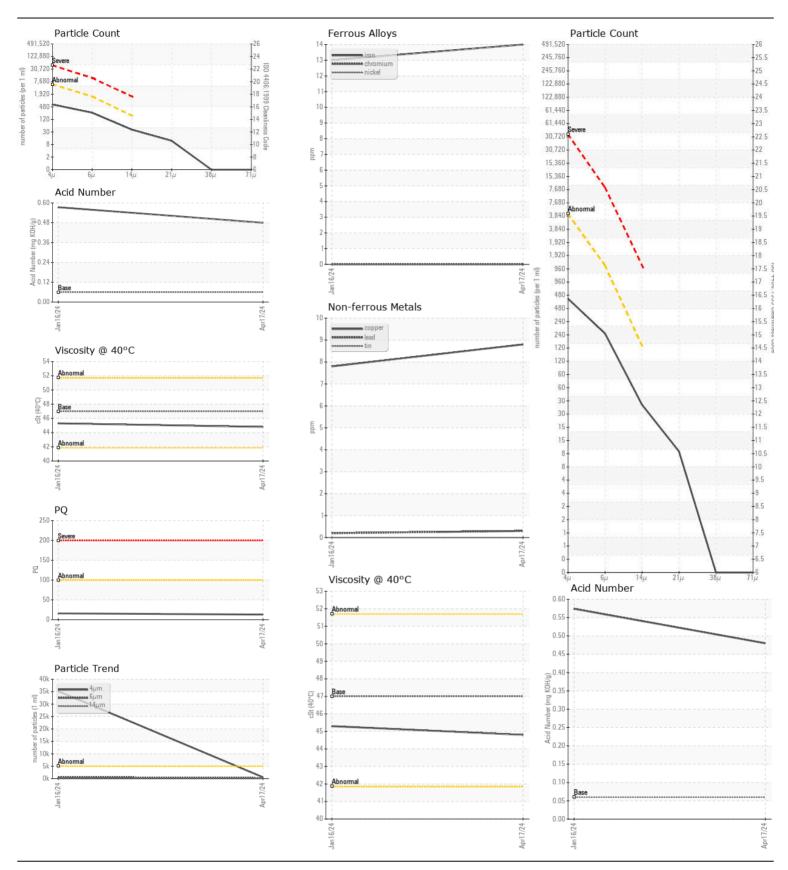
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

Machine Id

HAMM H12iP H2352105

Hydraulic System

RECOMMENDATION	Tost	11014	Mathad	Limit/Alex	(0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Linton:4	Linto O
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1 JR0197671	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0209094		
	Sample Date	hro	Client Info		17 Apr 2024	16 Jan 2024	
	Machine Age	hrs	Client Info		1986	1518	
	Oil Age	hrs	Client Info		1986 1986	0	
	Filter Age	hrs	Client Info			-	
	Oil Changed Filter Changed		Client Info		Changed	Not Changd Not Changd	
	Sample Status		Ciletti IIIIO		Changed NORMAL	ABNORMAL	
						ADNOTIVIAL	
VEAR	PQ		ASTM D8184		13	16	
All component wear rates are normal.	Iron	ppm	ASTM D5185m	>20	14	13	
	Chromium	ppm	ASTM D5185m		0	0	
	Nickel	ppm	ASTM D5185m	>10	0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		0	1	
	Lead	ppm	ASTM D5185m		<1	<1	
	Copper	ppm	ASTM D5185m		9	8	
	Tin	ppm	ASTM D5185m	>10	0	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	5	5	
	Potassium	ppm	ASTM D5185m	>20	0	<1	
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.	Water		WC Method	>0.1	NEG	NEG	
	Particles >4µm		ASTM D7647	>5000	545	<u></u> 4 35202 <u></u>	
	Particles >6µm		ASTM D7647	>1300	219	620	
	Particles >14μm		ASTM D7647	>160	34	11	
	Particles >21µm		ASTM D7647	>40	10	1	
	Particles >38µm		ASTM D7647	>10	0	1	
	Particles >71µm		ASTM D7647	>3	0	0	
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/15/12	<u>^</u> 22/16/11	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		3	<1	
EGID GONDITION	Boron	ppm	ASTM D5185m		0	0	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		0	0	
	Manganese	ppm	ASTM D5185m		<1	0	
	Magnesium	ppm	ASTM D5185m		2	2	
	Calcium	ppm	ASTM D5185m		223	250	
	Phosphorus	ppm	ASTM D5185m	827	323	322	
	Zinc	ppm	ASTM D5185m		392	381	
	Sulfur	ppm	ASTM D5185m		1286	1107	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.48	0.574	
	Visc @ 40°C	cSt	ASTM D445		44.8	45.3	





Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10989641

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0209094 : 06154218

Received : 19 Apr 2024 **Tested** Diagnosed Test Package : CONST (Additional Tests: PQ)

: 23 Apr 2024

: 23 Apr 2024 - Don Baldridge

CARLTON'S BACKHOE 9550 STATESVILLE ROAD CHARLOTTE, NC US 28269 Contact: LEO

T: (704)547-0211

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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