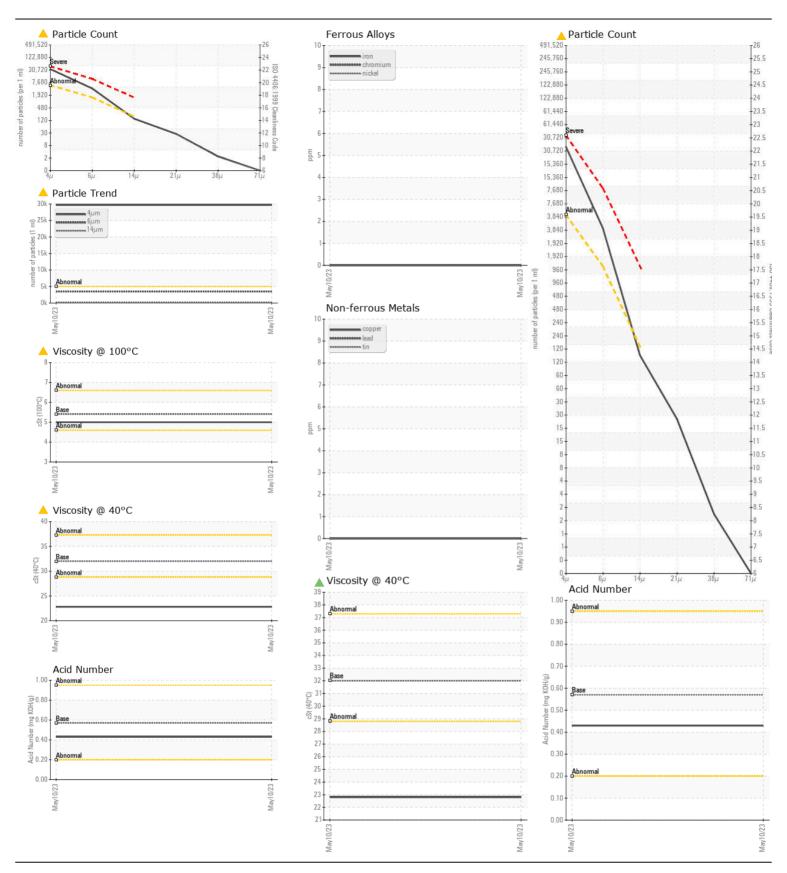
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ABNORMAL ATTENTION

IMPT 223175

Component Hydraulic System Fluid

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
THE CHARLETTER TOTAL	Sample Number		Client Info		WC0689645	,	
The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		10 May 2023		
	Machine Age	yrs	Client Info		1		
	Oil Age	yrs	Client Info		1		
	Filter Age	yrs	Client Info		1		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
VEAR	Iron	ppm	ASTM D5185m	>20	0		
VEAIT	Chromium	ppm	ASTM D5185m		0		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	>10	0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	\10	<1		
	Lead		ASTM D5185m		0		
	Copper	ppm ppm	ASTM D5185m		0		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m	>10	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	0		
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Potassium	ppm	ASTM D5185m	>20	<1		
	Water		WC Method		NEG		
	Particles >4µm		ASTM D7647	>5000	<u>^</u> 29675		
	Particles >6µm		ASTM D7647	>1300	4 3503		
	Particles >14µm		ASTM D7647	>160	127		
	Particles >21μm		ASTM D7647	>40	24		
	Particles >38µm		ASTM D7647		2		
	Particles >71μm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 22/19/14		
	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	>0.1	NEG		
THIR CONDITION	Codium	nnm	ASTM D5185m		.4		
FLUID CONDITION	Sodium	ppm		E	<1		
Viscosity of sample indicates oil is within ISO 22 range, advise	Boron Barium	ppm	ASTM D5185m ASTM D5185m		0		
investigate. Confirm oil type. The AN level is acceptable for this fluid.	Molybdenum	ppm	ASTM D5185m		0		
	-	ppm		5			
	Manganese	ppm	ASTM D5185m ASTM D5185m	25	<1 0		
	Magnesium	ppm	ASTM D5185m		0		
	Calcium	ppm			40		
	Phosphorus	ppm	ASTM D5185m		333		
	Zinc	ppm	ASTM D5185m	370	432		
	Sulfur	ppm	ASTM D5185m		710		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.43		
	Visc @ 40°C Visc @ 100°C	cSt cSt	ASTM D445 ASTM D445		▲ 22.8 ▲ 5		





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

: WC0689645 : 05852404 : 10481759

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 19 May 2023 Diagnosed

: 24 May 2023 Diagnostician : Jonathan Hester

Test Package : MOB 2 (Additional Tests: KV100, VI) 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) **HIAB USA - ROCHESTER** 1005 CHILI AVE STE 1 ROCHESTER, NY US 14611-2807 Contact: RON SCALERA

ron.scalera@hiab.com

T: F: