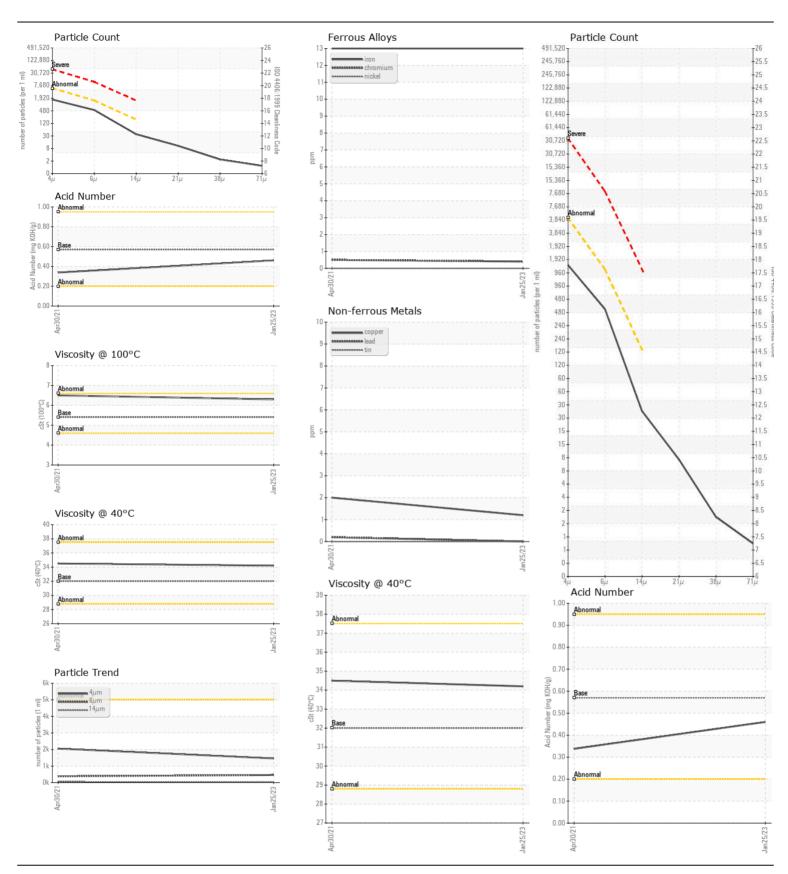
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

Machine Id **TK535**

Component Hydraulic System

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
ie oo iiiii e ito A ii o i	Sample Number		Client Info		WC0708425	WC0554820	
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Date		Client Info		25 Jan 2023	30 Apr 2021	
	Machine Age	hrs	Client Info		0	0	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	Not Changd	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status				NORMAL	NORMAL	
VEAR	Iron	ppm	ASTM D5185m	>20	13	13	
VEAIT	Chromium	ppm	ASTM D5185m		<1	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m	7.0	<1	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>10	0	0	
	Lead	ppm	ASTM D5185m		0	<1	
	Copper	ppm	ASTM D5185m		1	2	
	Tin	ppm	ASTM D5185m		0	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	nnm	ASTM D5185m	> 20	4	2	
		ppm			1		
The system cleanliness is acceptable for your target ISO 4406	Potassium	ppm	ASTM D5185m		<1 NEC	<1	
cleanliness code. The system and fluid cleanliness is acceptable.	Water		WC Method ASTM D7647		NEG	NEG 2055	
	Particles >4µm				1459 460	381	
	Particles >6µm Particles >14µm		ASTM D7647 ASTM D7647		32	56	
	Particles >14µm		ASTM D7647		9	21	
	Particles >38µm		ASTM D7647		2	2	
	Particles >71µm		ASTM D7647		1	0	
	Oil Cleanliness		ISO 4406 (c)		18/16/12	18/16/13	
	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		*Visual	>0.1	NEG	NEG	
	0 "		40TH BEIOE			· · · · · · · · · · · · · · · · · · ·	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	_	0	<1	
The AN level is acceptable for this fluid. The condition of the oil is	Boron	ppm	ASTM D5185m		0	6	
suitable for further service.	Barium	ppm	ASTM D5185m		1	0	
	Molybdenum	ppm	ASTM D5185m	5	<1	.4	
	Manganese	ppm	ASTM D5185m	OF.	<1 o	<1	
	Magnesium	ppm	ASTM D5185m		8	10	
	Calcium	ppm	ASTM D5185m	200	87	114	
	Phosphorus	ppm	ASTM D5185m		301	361	
	Zinc Sulfur	ppm	ASTM D5185m	370	341	395	
		ppm	ASTM D5185m		3377	3491	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.46	0.338	
	Visc @ 40°C	cSt	ASTM D445	32	34.2	34.5	
	Visc @ 100°C	cSt	ASTM D445	E 1	6.3	6.5	





Certificate L2367

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

: WC0708425 : 05750819 : 10310423

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 26 Jan 2023 Diagnosed : 27 Jan 2023 Diagnostician : Wes Davis

Test Package : MOB 2 (Additional Tests: KV100, VI)

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 - PORTSMOUTH 3115 WATSON ST PORTSMOUTH, VA US 23707

Contact: THOMAS ASBELL thomas.asbell@cargotec.com T: (757)558-4590

F: x: