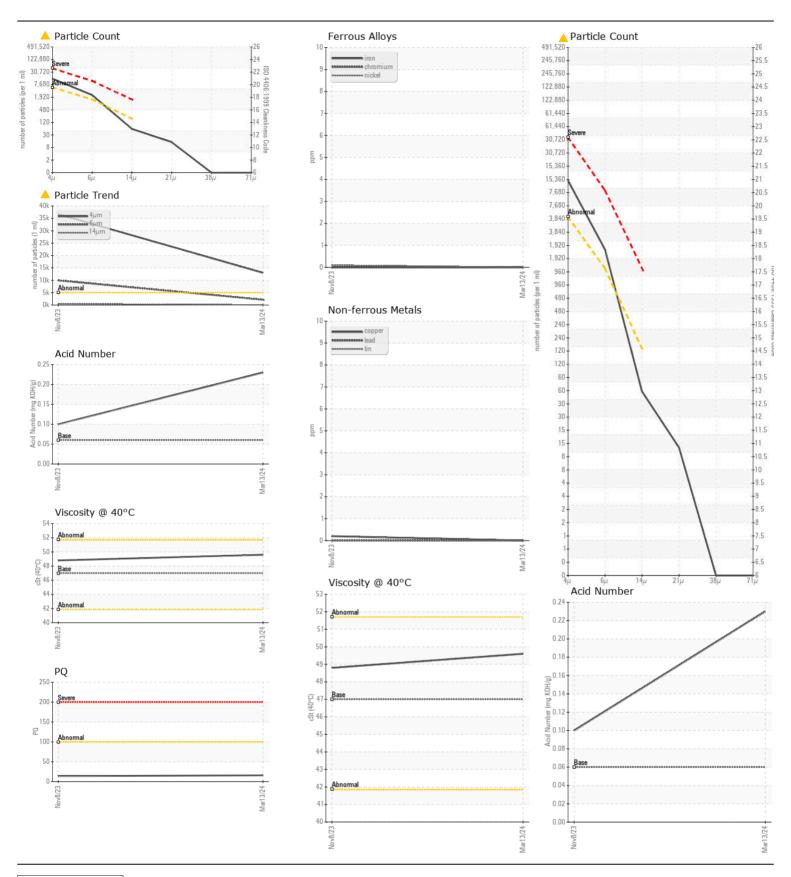
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL ABNORMAL NORMAL** 

## **EPIROC TMG21SED0180**

Component Hydraulic System Fluid

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0205525	JR0187969	
	Sample Date		Client Info		13 Mar 2024	08 Nov 2023	
	Machine Age	hrs	Client Info		30422	3500	
	Oil Age	hrs	Client Info		30422	3500	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	Not Changd	
	Sample Status				ABNORMAL	ABNORMAL	
VEAR	PQ		ASTM D8184		16	14	
	Iron	ppm	ASTM D5185m	>20	0	0	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	0	0	
	Nickel	ppm	ASTM D5185m	>10	0	<1	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>10	<1	<1	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		0	<1	
	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	ppm	ASTM D5185m	<b>√2</b> 0	3	2	
ONTAIMINATION	Potassium	ppm	ASTM D5185m		0	<1	
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Water	ррпп	WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647		▲ 12980	▲ 36685	
	Particles >6μm		ASTM D7647		2134	▲ 9961	
	Particles >14μm		ASTM D7647		52	▲ 494	
	Particles >21µm		ASTM D7647		12	<u> 494</u> 98	
	Particles >38µm		ASTM D7647		0	4	
	Particles >71µm		ASTM D7647		0	0	
	Oil Cleanliness		ISO 4406 (c)		<u>^</u> 21/18/13	<u>^</u> 22/20/16	
	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			>0.1	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		0	<1	
The AN level is acceptable for this fixed. The condition of the -il i-	Boron	ppm	ASTM D5185m		7	6	
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		7	6	
	Manganese	ppm	ASTM D5185m		0	0	
	Magnesium	ppm	ASTM D5185m		15	23	
	Calcium	ppm	ASTM D5185m		55	41	
	Phosphorus	ppm	ASTM D5185m		677	670	
	Zinc	ppm	ASTM D5185m		24	26	
	Sulfur	ppm	ASTM D5185m		51	111	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.23	0.10	
	Visc @ 40°C	cSt	ASTM D445	47	49.6	48.8	





Certificate L2367

Laboratory

Sample No. Lab Number : 06122235

: JR0205525 Unique Number: 10936386

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

: 19 Mar 2024 Tested Diagnosed Test Package : CONST ( Additional Tests: PQ )

: 20 Mar 2024 : 21 Mar 2024 - Don Baldridge

JRE - CHARLOTTE 9550 STATESVILLE ROAD CHARLOTTE, NC US 28269

Contact: Chuck Sorrow JSorrow@jamesriverequipment.com

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: (704)596-6198

Submitted By: Mike Young - CHARLOTTE SHOP

T: