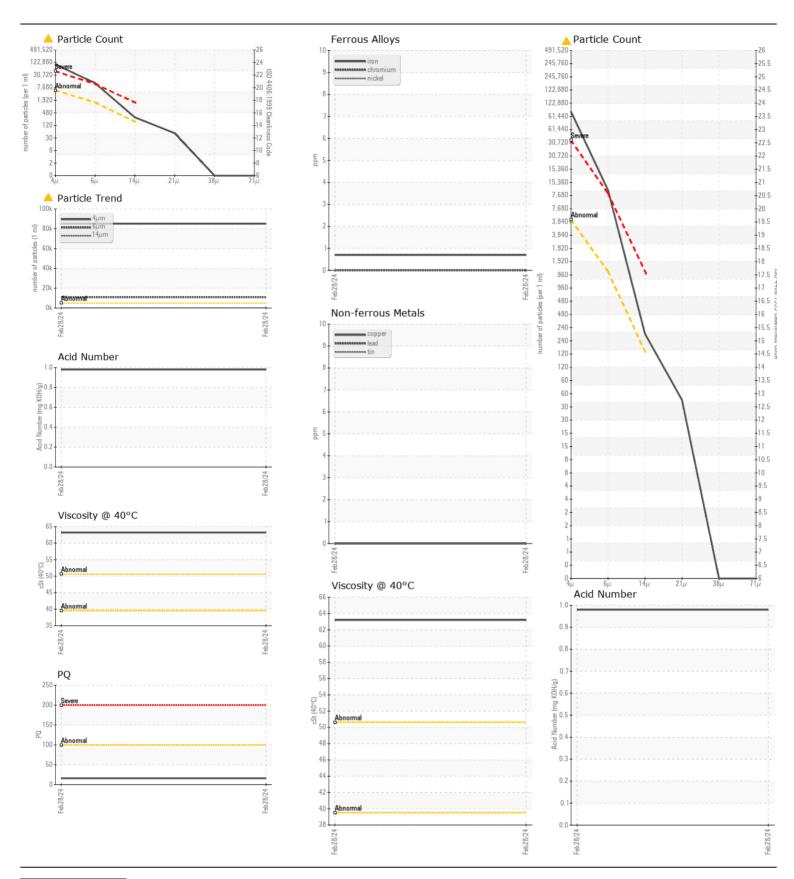
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ABNORMAL NORMAL

HYUNDAI HHKHW500CC0000937

Component
Hydraulic System
Fluid

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0204287		
We recommend you service the filters on this component. Resample at the next service interval to monitor.	Sample Date		Client Info		28 Feb 2024		
	Machine Age	hrs	Client Info		2813		
	Oil Age	hrs	Client Info		2813		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				ABNORMAL		
VEAR	PQ		ASTM D8184		16		
VEAIL	Iron	ppm	ASTM D5185m	>20	<1		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	>10	0		
	Silver		ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>10	0		
	Lead		ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		0		
	Tin	ppm	ASTM D5165III		0		
	Vanadium	ppm	ASTM D5185m	>10	0		
	White Metal	ppm scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		<1		
There is a high amount of particulates present in the oil.	Potassium	ppm	ASTM D5185m		0		
	Water		WC Method		NEG		
	Particles >4µm		ASTM D7647		<u>▲</u> 85048		
	Particles >6µm		ASTM D7647		▲ 10927 ▲ 054		
	Particles >14µm		ASTM D7647		<u>^</u> 254		
	Particles >21µm		ASTM D7647		<u>45</u>		
	Particles >38µm		ASTM D7647		0		
	Particles >71µm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)		<u>A</u> 24/21/15		
	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	>0.1	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m		<1		
	Boron	ppm	ASTM D5185m		2		
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		
	Molybdenum	ppm	ASTM D5185m		2		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		4		
	Calcium	ppm	ASTM D5185m		102		
	Phosphorus	ppm	ASTM D5185m		641		
	Zinc	ppm	ASTM D5185m		774		
	Sulfur	ppm	ASTM D5185m		1530		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.98		
	Visc @ 40°C	cSt	ASTM D445		63.2		





Certificate L2367

Laboratory Sample No.

Lab Number : 06105970

: JR0204287 Unique Number : 10909467

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

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

: 04 Mar 2024 : 05 Mar 2024 - Don Baldridge

JRE - CHARLOTTE 9550 STATESVILLE ROAD CHARLOTTE, NC US 28269

Contact: Chuck Sorrow JSorrow@jamesriverequipment.com

* - 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

T: