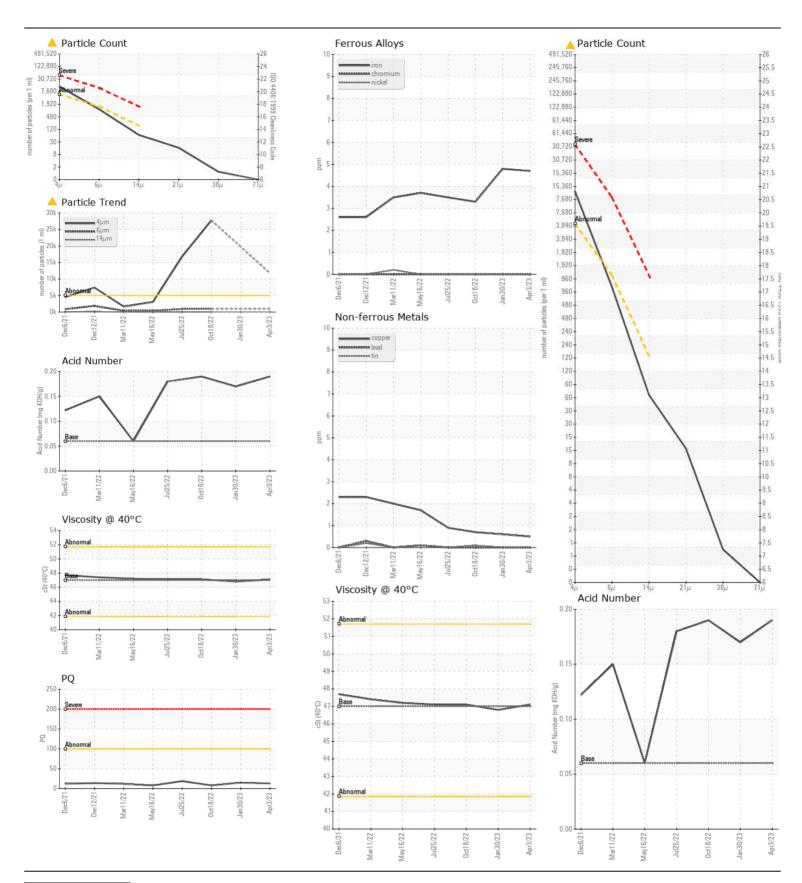
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL ABNORMAL NORMAL** 

## HITACHI 1FFDDR70PMF940961

Component Hydraulic System

	L)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No compatible action is accompanied at this flag. December at the	Sample Number		Client Info		JR0157602	JR0160447	JR015009
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		03 Apr 2023	30 Jan 2023	18 Oct 202
	Machine Age	hrs	Client Info		3445	2947	2462
	Oil Age	hrs	Client Info		3445	2947	2462
	Filter Age	hrs	Client Info		3445	0	510
	Oil Changed		Client Info		Not Changd	Not Changd	Oil Added
	Filter Changed		Client Info		Not Changd	Changed	Not Chang
	Sample Status				ABNORMAL	ABNORMAL	ABNORMA
WEAR	PQ		ASTM D8184		13	15	8
	Iron	ppm	ASTM D5185m	>20	5	5	3
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	0	0	0
	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>10	1	0	<1
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m	>75	<1	<1	<1
	Tin	ppm	ASTM D5185m	>10	0	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	2	2	2
SONTAMINATION	Potassium	ppm	ASTM D5185m		0	- <1	<1
There is a high amount of silt (particulates < 6 microns in size) present in the oil.	Water	ррпп	WC Method		NEG	NEG	NEG
	Particles >4µm		ASTM D7647		▲ 11753		△ 27745
	Particles >6µm		ASTM D7647		958		974
	Particles >14μm		ASTM D7647		57		17
	Particles >21µm		ASTM D7647		14		4
	Particles >38µm		ASTM D7647		1		1
	Particles >71µm		ASTM D7647		0		0
	Oil Cleanliness		ISO 4406 (c)		<u>A</u> 21/17/13		<u>22/17/1</u>
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	▲ MODER	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.1	NEG	NEG	NEG
······			VIOUGI			1420	1420
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	0	0
	Boron	ppm	ASTM D5185m		0	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	0
	Molybdenum	ppm	ASTM D5185m		<1	0	<1
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		11	<1	<1
	Calcium	ppm	ASTM D5185m		2	2	0
	Phosphorus	ppm	ASTM D5185m	827	527	496	493
	Zinc	ppm	ASTM D5185m		7	9	7
	Sulfur	ppm	ASTM D5185m		124	35	79
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.19	0.17	0.19
	Visc @ 40°C	cSt	ASTM D445		47.1	46.8	47.1





Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0157602 : 05810880

Unique Number : 10413672

Received **Tested** 

: 04 Apr 2023 Diagnosed Test Package : CONST ( Additional Tests: PQ )

: 06 Apr 2023

: 07 Apr 2023 - Doug Bogart To discuss this sample report, contact Customer Service at 1-800-237-1369.

US 20136 Contact: DANNY HUFF dhuff@bandssite.com T: (540)270-3203

**B & S SITE DEVLEOPMENT** 

7800 PINEY BRANCH LANE

\* - 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: (703)753-0605

BRISTOW, VA