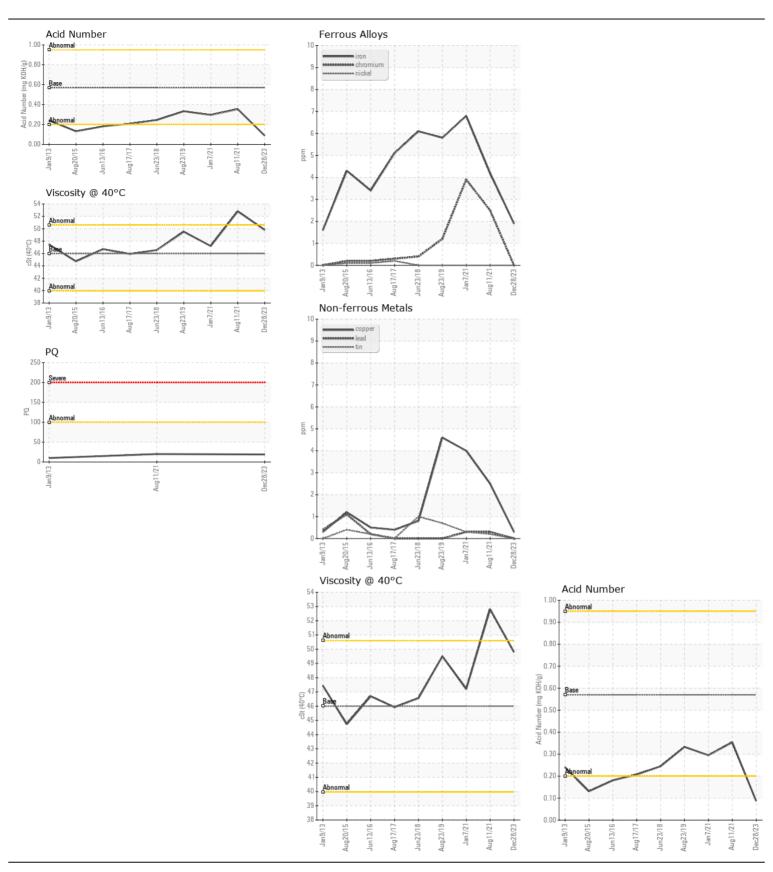
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL ABNORMAL NORMAL** 

## HITACHI FF00ASP920190

Component
Hydraulic System

PECOMMENDATION  Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0197383	JR0098879	WC0464587
	Sample Date		Client Info		28 Dec 2023	11 Aug 2021	07 Jan 202
	Machine Age	hrs	Client Info		11748	11748	11149
	Oil Age	hrs	Client Info		11748	1000	2000
	Filter Age	hrs	Client Info		0	1000	2000
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		Changed	Not Changd	Changed
	Sample Status				ABNORMAL	ATTENTION	ABNORMA
VEAR	PQ		ASTM D8184		19	20	
VEAL	Iron	ppm	ASTM D5185m	>20	2	4	7
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	2	4
	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>10	0	0	0
	Lead	ppm	ASTM D5185m	>10	0	<1	<1
	Copper	ppm	ASTM D5185m	>75	<1	2	4
	Tin	ppm	ASTM D5185m	>10	0	<1	<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	3	1	2
DONTAININATION	Potassium	ppm	ASTM D5185m		0	<1	0
Moderate concentration of visible dirt/debris present in the oil.	Water	ρρ	WC Method		NEG	NEG	NEG
	Particles >4µm		ASTM D7647			▲ 10792	<b>18389</b>
	Particles >6µm		ASTM D7647			1026	549
	Particles >14µm		ASTM D7647	>160		61	7
	Particles >21µm		ASTM D7647	>40		19	3
	Particles >38µm		ASTM D7647	>10		1	2
	Particles >71µm		ASTM D7647	>3		0	0
	Oil Cleanliness		ISO 4406 (c)	>20/17/14		<b>1</b> 21/17/13	<b>1</b> 21/16/1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	▲ MODER	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar		NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	0	0
	Boron	ppm	ASTM D5185m	5	3	1	1
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	5	0	0	0
	Molybdenum	ppm	ASTM D5185m	5	0	<1	<1
	Manganese	ppm	ASTM D5185m		0	<1	0
	Magnesium	ppm	ASTM D5185m		0	3	3
	Calcium	ppm	ASTM D5185m	200	114	35	42
	Phosphorus	ppm	ASTM D5185m		675	352	409
	Zinc	ppm	ASTM D5185m	370	40	322	255
	Sulfur	ppm	ASTM D5185m	2500	206	647	568
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.087	0.354	0.295
	Visc @ 40°C	cSt	ASTM D445	46	49.8	52.8	47.2







Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number** 

: JR0197383 : 06048732 : 10809340

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 02 Jan 2024 Diagnosed

: 03 Jan 2024 Diagnostician : Don Baldridge

Test Package : CONST ( Additional Tests: PQ )

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. **SULLIVAN EASTERN INC** 

2860 C SLATER RD MORRISVILLE, NC US 27560

Contact: SCOTT SULLIVAN ssullivan@sullivaneastern.com

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)