WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ABNORMAL NORMAL

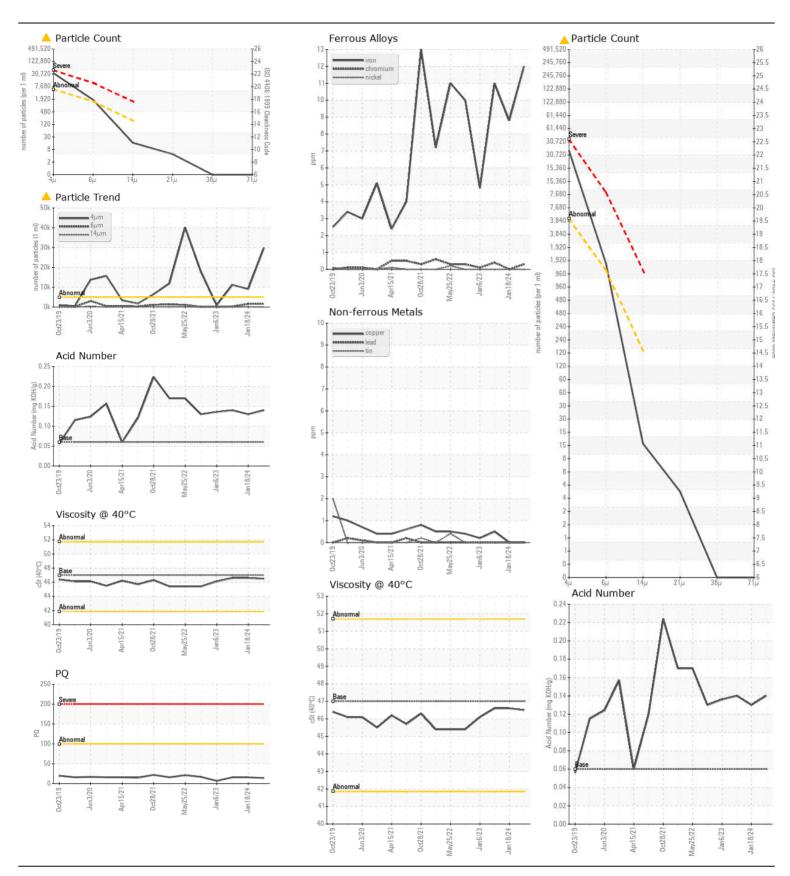
[W51364]

HITACHI Z AXIS 350 1FFDDR70AKF940706

Hydraulic System

HITACHI HVDRAIII IC SIIDER EY 16HN (.

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0212009	JR0200190	JR0165509
	Sample Date		Client Info		23 Apr 2024	18 Jan 2024	13 Jun 2023
	Machine Age	hrs	Client Info		5948	5470	4979
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	Not Change
	Filter Changed		Client Info		Changed	Not Changd	Changed
	Sample Status				ABNORMAL	ATTENTION	ABNORMAL
WEAR	PQ		ASTM D8184		14	16	16
	Iron	ppm	ASTM D5185m	>20	12	9	11
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		 <1	0	<1
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m	710	0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>10	2	<1	3
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		0	0	<1
	Tin	ppm	ASTM D5185m		0	0	0
	Vanadium	ppm	ASTM D5185m	710	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		4	3	7
There is a high amount of silt (particulates < 14 microns in size)	Potassium	ppm	ASTM D5185m		<1	0	1
present in the oil.	Water		WC Method		NEG	NEG	NEG
	Particles >4µm		ASTM D7647		<u>^</u> 29840	9061	11177
	Particles >6µm		ASTM D7647		1559	1553	256
	Particles >14μm		ASTM D7647		14	119	16
	Particles >21µm		ASTM D7647		4	29	4
	Particles >38μm		ASTM D7647		0	0	0
	Particles >71μm		ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)		<u>^</u> 22/18/11	20/18/14	21/15/1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	1	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	2
	Molybdenum	ppm	ASTM D5185m		0	0	0
	Manganese	ppm	ASTM D5185m		0	0	0
	Magnesium	ppm	ASTM D5185m		0	0	<1
	Calcium	ppm	ASTM D5185m		5	0	<1
	Phosphorus	ppm	ASTM D5185m	827	582	486	867
	Zinc	ppm	ASTM D5185m		10	0	7
	Sulfur	ppm	ASTM D5185m		70	15	86
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.14	0.13	0.14
	Visc @ 40°C	cSt	ASTM D445		46.5	46.6	46.6





Certificate L2367

Laboratory Sample No. Lab Number

: JR0212009 : 06160261

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

Received **Tested** Unique Number : 10995684 Diagnosed Test Package : CONST (Additional Tests: PQ)

: 26 Apr 2024 : 26 Apr 2024 - Don Baldridge

: 25 Apr 2024

JRE - ASHLAND 11047 LEADBETTER RD ASHLAND, VA US 23005

Contact: DAVID ZIEG dzieg@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)

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