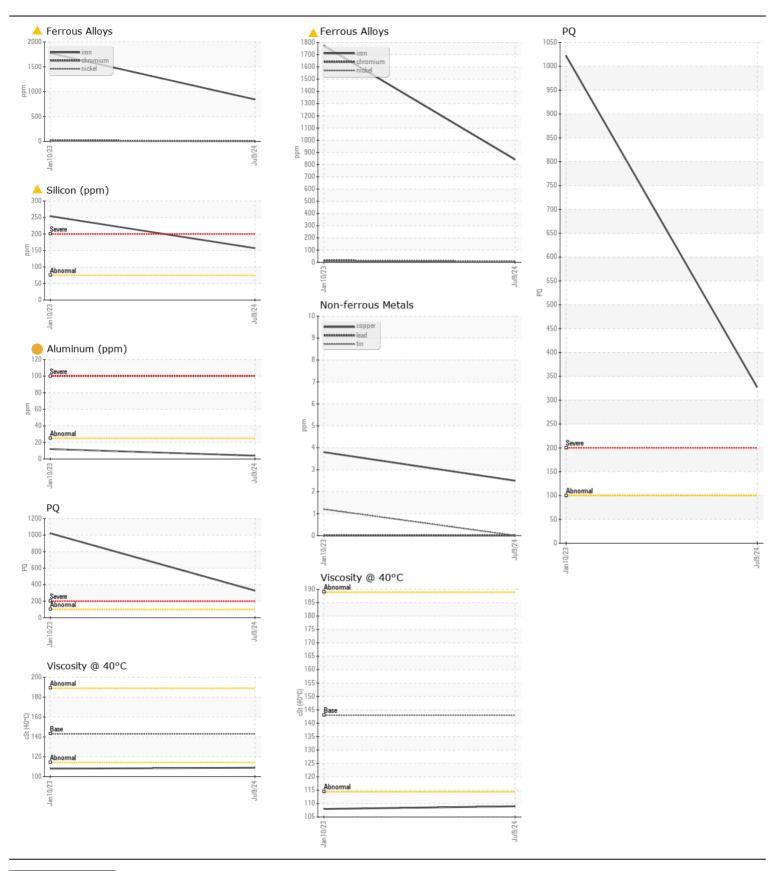
WEAR CONTAMINATION FLUID CONDITION **ABNORMAL ABNORMAL NORMAL**

HITACHI ZX210LC E-26 (S/N 1FFDCJ70CFE330715)

Left Final Drive

GEAR OIL SAE 80W90 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		JR06233460	JR0121720	
	Sample Date		Client Info		09 Jul 2024	10 Jan 2023	
	Machine Age	hrs	Client Info		8247	7129	
	Oil Age	hrs	Client Info		1118	820	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	PQ		ASTM D8184		327	1022	
The iron level has decreased, but is still abnormal. Gear wear is indicated.	Iron	ppm	ASTM D5185m	>500	<u> </u>	<u></u> 1773	
	Chromium	ppm	ASTM D5185m	>10	5	<u> </u>	
	Nickel	ppm	ASTM D5185m	>10	2	5	
	Titanium	ppm	ASTM D5185m		1	2	
	Silver	ppm	ASTM D5185m		<1	0	
	Aluminum	ppm	ASTM D5185m	>25	4	<u> </u>	
	Lead	ppm	ASTM D5185m	>25	0	0	
	Copper	ppm	ASTM D5185m	>50	2	4	
	Tin	ppm	ASTM D5185m	>10	0	1	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	MODER	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Silicon	ppm	ASTM D5185m	>75	<u> </u>	254	
	Potassium	ppm	ASTM D5185m	>20	4	4	
	Water		WC Method	>0.2	NEG	NEG	
	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	scalar	*Visual	>0.2	NEG	0.2%	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>170	0	2	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	400	6	16	
	Barium	ppm	ASTM D5185m	200	0	<1	
	Molybdenum	ppm	ASTM D5185m	12	<1	1	
	Manganese	ppm	ASTM D5185m		6	14	
	Magnesium	ppm	ASTM D5185m		5	1	
	Calcium	ppm	ASTM D5185m		110	14	
	Phosphorus	ppm	ASTM D5185m		471	571	
	Zinc	ppm	ASTM D5185m		32	16	
	Sulfur	ppm	ASTM D5185m		17750	14728	
	Visc @ 40°C	cSt	ASTM D445	143	109	108	





Certificate L2367

Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06233460

: JR06233460 Unique Number: 11116953

Received **Tested**

Diagnosed Test Package : CONST (Additional Tests: PQ)

: 11 Jul 2024 : 12 Jul 2024

: 13 Jul 2024 - Don Baldridge

WILMINGTON, NC US 28412 Contact: CHRIS DAWSON chris@tubgrinding.com T: (914)279-6817

DIVERSIFIED BIO-MASS

606 SUNYDALE DR

F: (910)793-6227

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