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

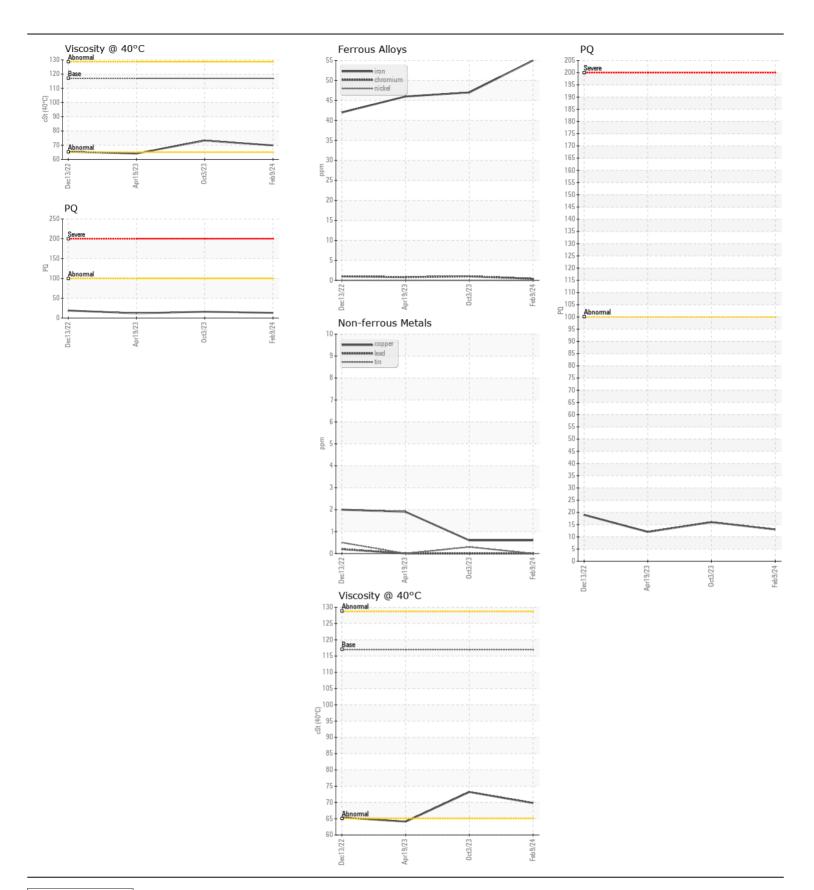
[16W15552]

## HITACHI ZX210LC-6 1FFDC571PNF341046

Pump Drive

Fluid .
IOHN DEERE ENGINE OIL PLUS 50 IL 15W40 (6 OTS).

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (6	QTS)				.,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. ( Customer Sample Comment: 16W15552 )	Sample Number		Client Info		JR0196453	JR0185316	JR0161133
	Sample Date		Client Info		09 Feb 2024	03 Oct 2023	19 Apr 2023
	Machine Age	hrs	Client Info		2000	1488	1032
	Oil Age	hrs	Client Info		968	456	1032
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	PQ		ASTM D8184		13	16	12
	Iron	ppm	ASTM D5185m	>500	55	47	46
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>15	<1	1	<1
	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>20	3	1	1
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m	>35	<1	<1	2
	Tin	ppm	ASTM D5185m	>4	0	<1	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION  There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>75	11	10	11
	Potassium	ppm	ASTM D5185m	>20	3	<1	<1
	Water		WC Method	>0.2	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	2	4
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		343	354	63
	Barium	ppm	ASTM D5185m		0	0	2
	Molybdenum	ppm	ASTM D5185m		279	250	101
	Manganese	ppm	ASTM D5185m		<1	1	3
	Magnesium	ppm	ASTM D5185m		797	800	19
	Calcium	ppm	ASTM D5185m		1539	1606	3907
	Phosphorus	ppm	ASTM D5185m		908	939	1103
	Zinc	ppm	ASTM D5185m		1100	1074	1248
	Sulfur	ppm	ASTM D5185m		3822	3607	9283
	Visc @ 40°C	cSt	ASTM D445	117	69.8	73.2	64.1





Laboratory Sample No. Unique Number : 10875071

**Lab Number** : 06087626

: JR0196453

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 13 Feb 2024 Received

: 14 Feb 2024 Tested Diagnosed Test Package : CONST ( Additional Tests: PQ )

: 14 Feb 2024 - Don Baldridge

JRE - CASTLE HAYNE 113 CROWATAN ROAD CASTLE HAYNE, NC US 28429-5819

Contact: WILMINGTON SHOP todd.simmons@jamesriverequipment.com;canastasio@wearcheck.com;canastasio@we

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.

T: (910)675-9211

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

F: