WEAR CONTAMINATION FLUID CONDITION

ABNORMAL

ABNORMAL

NORMAL

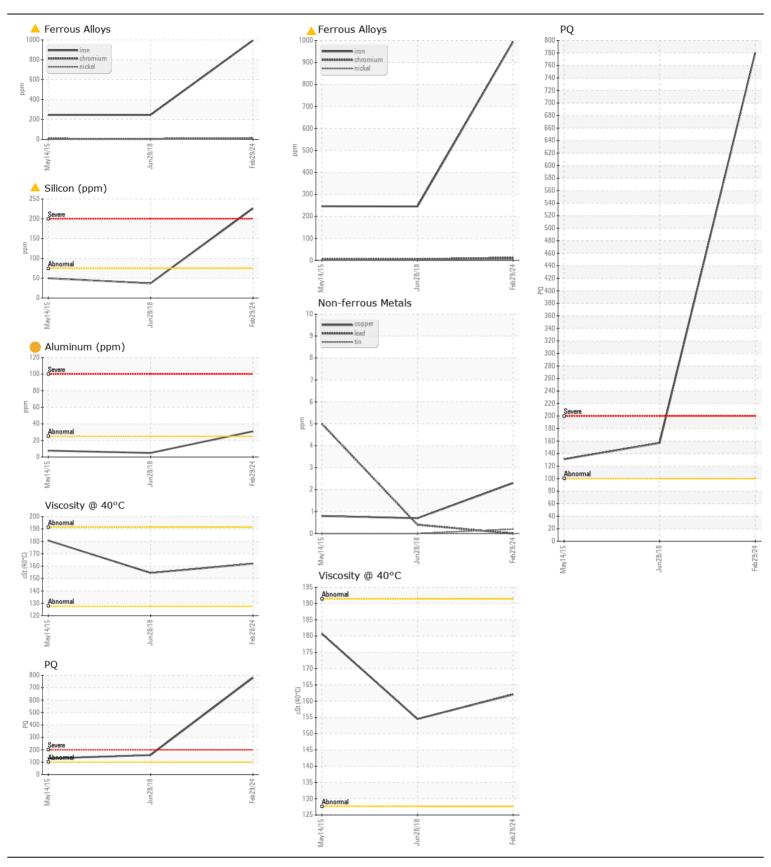
Machine Ic

HITACHI 225LC-3 HCM1U400H00221269

Right Final Drive

JOHN DEERE GL-5 80W90 (--- GAL)

JOHN DEERE GL-5 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		JR0200479	JRMC448292	JRMC375414
	Sample Date		Client Info		29 Feb 2024	28 Jun 2018	14 May 2015
	Machine Age	hrs	Client Info		5951	4164	1896
	Oil Age	hrs	Client Info		0	2000	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	PQ		ASTM D8184		780	157	131
Gear wear is indicated.	Iron	ppm	ASTM D5185m	>500	△ 994	245	246
	Chromium	ppm	ASTM D5185m	>10	1 2	5	6
	Nickel	ppm	ASTM D5185m	>10	5	2	<1
	Titanium	ppm	ASTM D5185m		4	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	3 1	5	8
	Lead	ppm	ASTM D5185m	>25	0	<1	5
	Copper	ppm	ASTM D5185m	>50	2	<1	<1
	Tin	ppm	ASTM D5185m	>10	<1	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	LIGHT	HEAVY
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Silicon	ppm	ASTM D5185m	>75	226	37	50
	Potassium	ppm	ASTM D5185m	>20	10	8	12
	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		4	3	2
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		13	26	46
	Barium	ppm	ASTM D5185m		0	<1	3
	Molybdenum	ppm	ASTM D5185m		0	2	3
	Manganese	ppm	ASTM D5185m		11	8	11
	Magnesium	ppm	ASTM D5185m		4	9	0
	Calcium	ppm	ASTM D5185m		16	45	45
	Phosphorus	ppm	ASTM D5185m		2176	1633	531
	Zinc	ppm	ASTM D5185m		21	51	40
	Sulfur	ppm	ASTM D5185m		26938	20556	14012
	Visc @ 40°C	cSt	ASTM D445		162	154.5	180.7





Unique Number : 10909845

Laboratory Sample No.

: JR0200479 Lab Number : 06106348

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

Received Tested

: 01 Mar 2024 Diagnosed Test Package : CONST (Additional Tests: PQ)

: 04 Mar 2024 : 05 Mar 2024 - Sean Felton 11047 LEADBETTER RD ASHLAND, VA US 23005

Contact: DAVID ZIEG dzieg@jamesriverequipment.com

JRE - ASHLAND

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: (804)798-6001 F: (804)798-0292