

[05W46192] HITACHI 350 1FFDDR70AJF940509 Component Right Final Drive

JOHN DEERE GL-5 80W90 (10 QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

CONTAMINATION

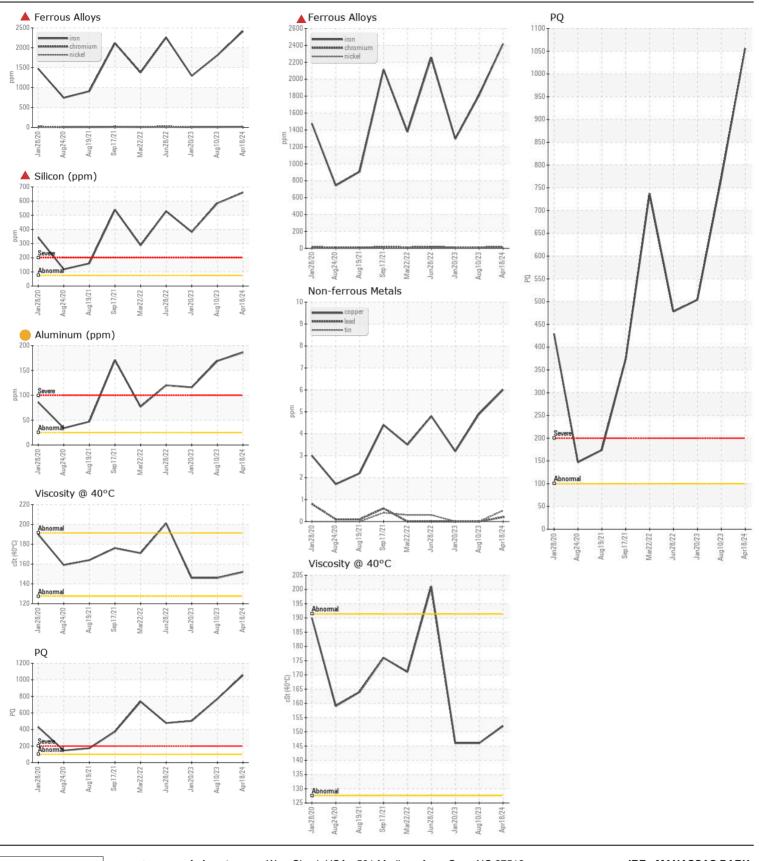
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0208415	JR0182123	JR0153123
Sample Date		Client Info		18 Apr 2024	10 Aug 2023	20 Jan 2023
Machine Age	hrs	Client Info		5448	4957	4451
Oil Age	hrs	Client Info		1500	4080	877
Filter Age	hrs	Client Info		0	3574	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	None	None
Sample Status				SEVERE	SEVERE	ABNORMAL
PQ		ASTM D8184		1056	770	504
Iron	nnm	ASTM D0104 ASTM D5185m	>500	A 2417	1811	1294
Chromium	ppm	ASTM D5185m	>10	2417 15	11	8
Nickel	ppm	ASTM D5185m	>10	3		2
Titanium	ppm	ASTM D5185m	>10	3 ▲ 13	3	2
Silver	ppm	ASTM D5185m		0	0	8
Aluminum	ppm	ASTM D5185m	. 25	0 186	169	116
Lead	ppm	ASTM D5185m	>25 >25	<1	0	0
-	ppm			<1 6	5	3
Copper	ppm	ASTM D5185m	>50	-	-	
Tin Vanadium	ppm	ASTM D5185m ASTM D5185m	>10	<1 <1	0	0 <1
White Metal	ppm				<1 NONE	
	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	660	5 85	▲ 382
Potassium	ppm	ASTM D5185m	>20	24	21	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
Sodium	ppm	ASTM D5185m		32	30	15
Boron	ppm	ASTM D5185m		10	8	6
Barium	ppm	ASTM D5185m		<1	0	2
Molybdenum	ppm	ASTM D5185m		2	2	1
Manganese	ppm	ASTM D5185m		19	13	10
Magnesium	ppm	ASTM D5185m		34	34	22
Calcium	ppm	ASTM D5185m		94	135	61
Phosphorus	ppm	ASTM D5185m		642	603	640
Zinc	ppm	ASTM D5185m		14	22	19
Sulfur	ppm	ASTM D5185m		20654	22153	20342
Sullui	ppin					

Submitted By: TECHNICIAN ACCOUNT



JRE - MANASSAS PARK Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : JR0208415 Received 9107 OWENS DRIVE : 19 Apr 2024 Lab Number : 06154750 MANASSAS PARK, VA Tested : 22 Apr 2024 : 23 Apr 2024 - Sean Felton US 20111 Unique Number : 10990173 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: DON VEST Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dvest@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (703)631-8500 F: (703)631-4715 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: TECHNICIAN ACCOUNT Page 2 of 2