



Area
[16W15808]
 Machine Id
HITACHI 300LC-6N 1FFDDP70CGF840128
 Component
Right Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (2 GAL)

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 recommend an early resample to monitor this condition. (Customer Sample Comment: 16W15808)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0206960	JR0196582	JR0185373
Sample Date		Client Info		15 Mar 2024	15 Dec 2023	29 Sep 2023
Machine Age	hrs	Client Info		6967	6529	6157
Oil Age	hrs	Client Info		810	372	2412
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	SEVERE

WEAR

Gear wear is indicated.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		625	356	305
Iron	ppm	ASTM D5185m	>500	▲ 963	510	▲ 1184
Chromium	ppm	ASTM D5185m	>10	7	4	9
Nickel	ppm	ASTM D5185m	>10	3	2	6
Titanium	ppm	ASTM D5185m		6	3	3
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	▲ 30	● 21	● 56
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	2	<1	1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

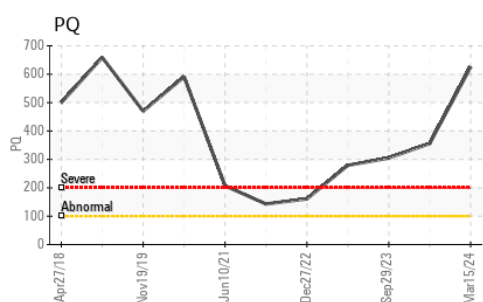
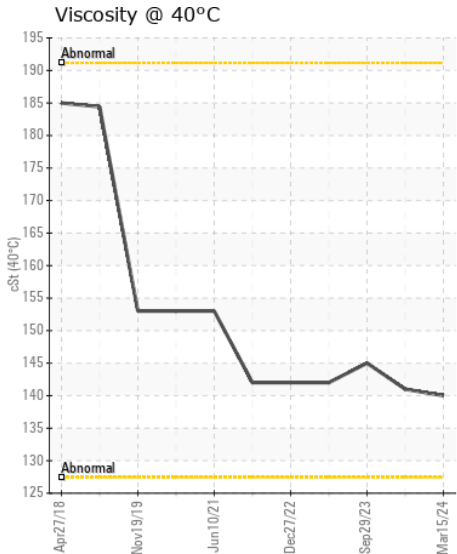
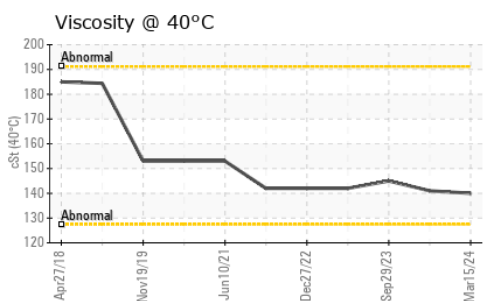
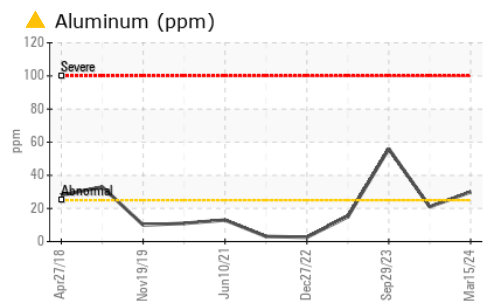
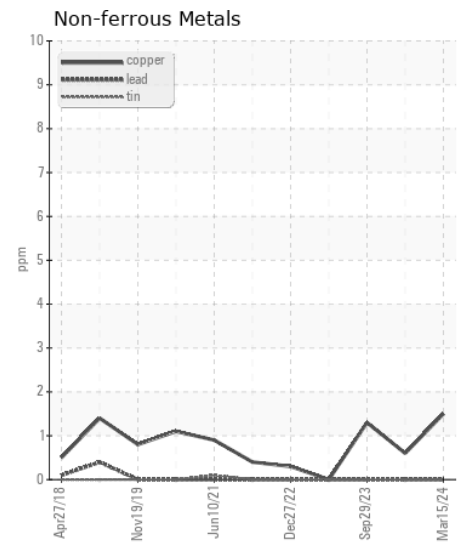
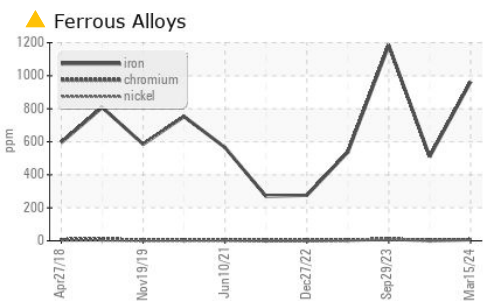
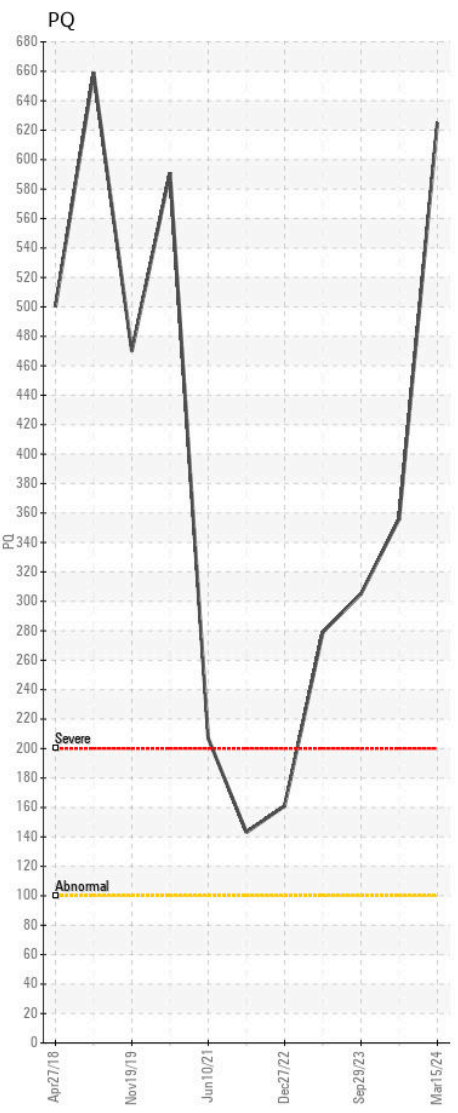
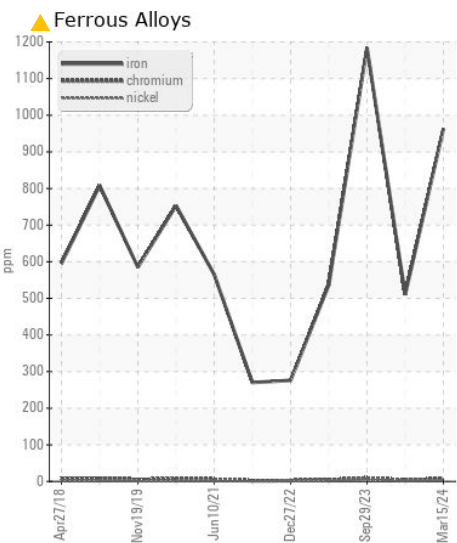
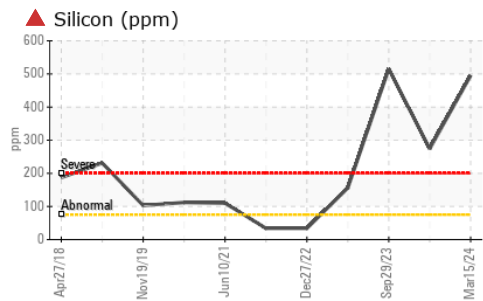
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 495	▲ 274	▲ 515
Potassium	ppm	ASTM D5185m	>20	6	1	11
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	NONE	MODER
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

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

Sodium	ppm	ASTM D5185m		0	<1	3
Boron	ppm	ASTM D5185m		12	9	51
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		1	<1	1
Manganese	ppm	ASTM D5185m		7	4	9
Magnesium	ppm	ASTM D5185m		4	1	5
Calcium	ppm	ASTM D5185m		16	8	46
Phosphorus	ppm	ASTM D5185m		334	325	436
Zinc	ppm	ASTM D5185m		10	9	11
Sulfur	ppm	ASTM D5185m		21976	18677	19237
Visc @ 40°C	cSt	ASTM D445		140	141	145



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0206960 **Received** : 19 Mar 2024
Lab Number : 06122712 **Tested** : 20 Mar 2024
Unique Number : 10936863 **Diagnosed** : 21 Mar 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - GARNER
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Certificate L2367
 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)