



Area

[PP EXCAVATING CO]

Machine Id

HITACHI ZX300LC-6 1FFDDP70HKF840614

Component

Left Final Drive

Fluid

JOHN DEERE GL-5 80W90 (--- 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.

WEAR

Gear wear is indicated.

CONTAMINATION

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

FLUID CONDITION

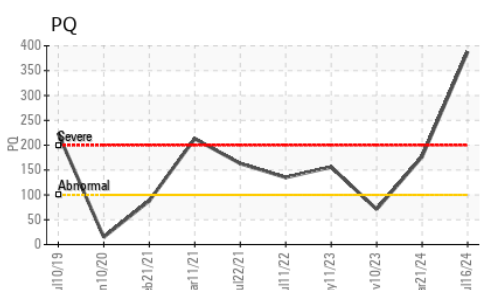
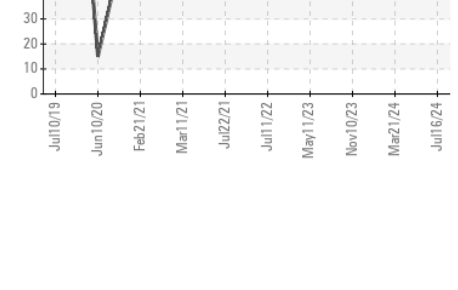
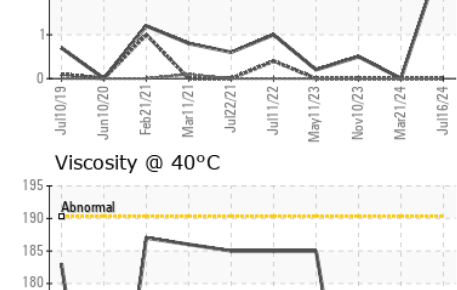
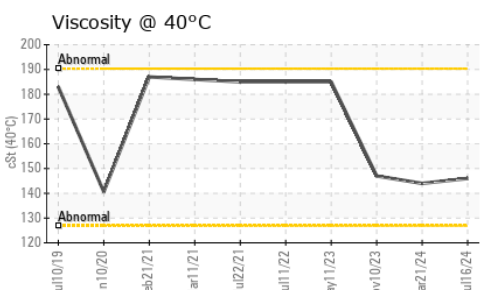
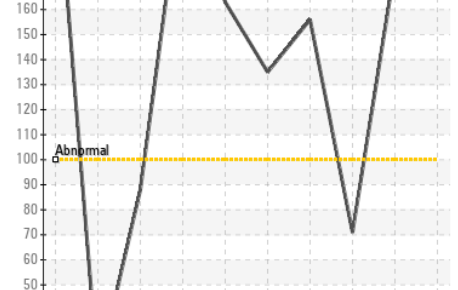
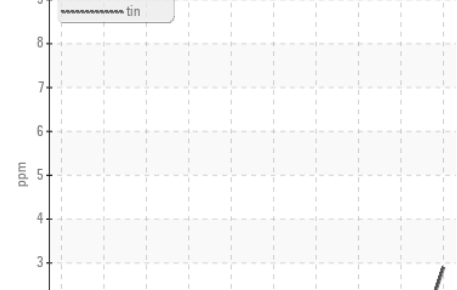
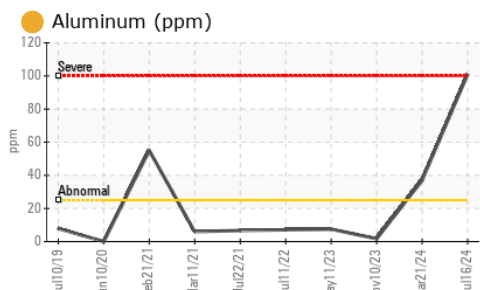
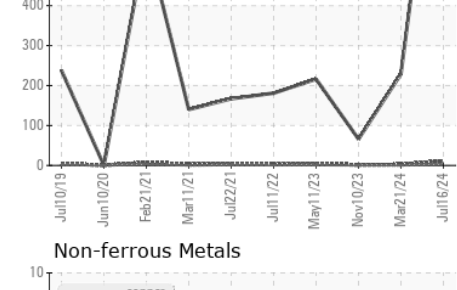
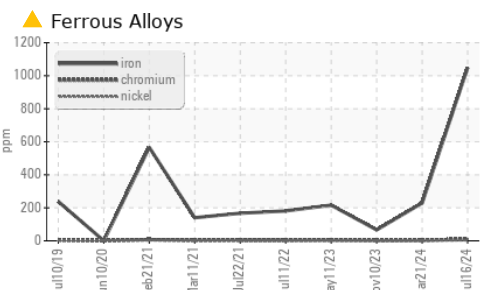
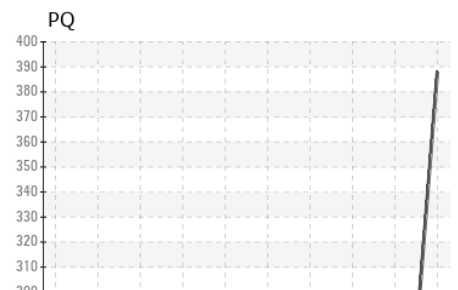
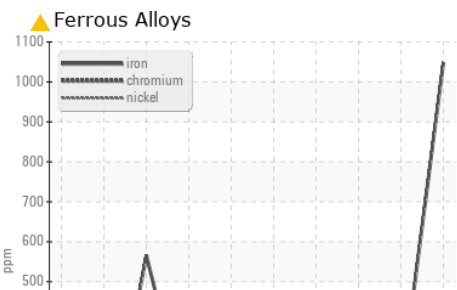
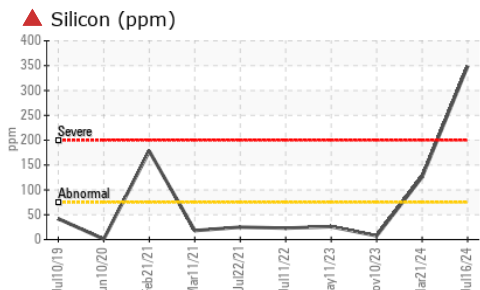
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0221140	JR0210585	JR0184349
Sample Date		Client Info		16 Jul 2024	21 Mar 2024	10 Nov 2023
Machine Age	hrs	Client Info		3492	2991	2509
Oil Age	hrs	Client Info		0	1000	0
Filter Age	hrs	Client Info		0	2991	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	NORMAL

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		388	177	71
Iron	ppm	ASTM D5185m	>500	▲ 1048	229	66
Chromium	ppm	ASTM D5185m	>10	▲ 11	2	1
Nickel	ppm	ASTM D5185m	>10	3	<1	<1
Titanium	ppm	ASTM D5185m		8	3	<1
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>25	● 101	● 37	2
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	3	0	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>75	▲ 349	▲ 126	8
Potassium	ppm	ASTM D5185m	>20	38	13	3
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		<1	2	0
Boron	ppm	ASTM D5185m		56	22	41
Barium	ppm	ASTM D5185m		2	<1	0
Molybdenum	ppm	ASTM D5185m		9	0	1
Manganese	ppm	ASTM D5185m		10	3	1
Magnesium	ppm	ASTM D5185m		38	10	4
Calcium	ppm	ASTM D5185m		84	71	21
Phosphorus	ppm	ASTM D5185m		501	619	506
Zinc	ppm	ASTM D5185m		54	24	8
Sulfur	ppm	ASTM D5185m		17844	21508	19425
Visc @ 40°C	cSt	ASTM D445		146	144	147



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0221140 **Received** : 18 Jul 2024
Lab Number : 06240594 **Tested** : 19 Jul 2024
Unique Number : 11129428 **Diagnosed** : 20 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - STEPHENSON
 245 YARDMASTER COURT
 STEPHENSON, VA
 US 22656-1761
 Contact: PHIL DAUGHERTY
 pdaugherty@jamesriverequipment.com

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)

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 F: (540)693-2588