



Machine Id
JOHN DEERE PM061092
 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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

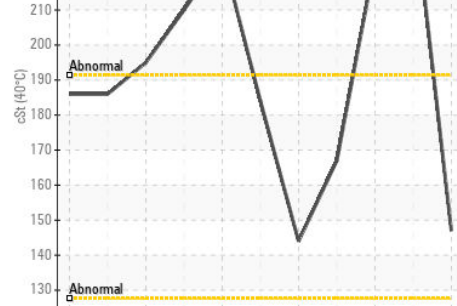
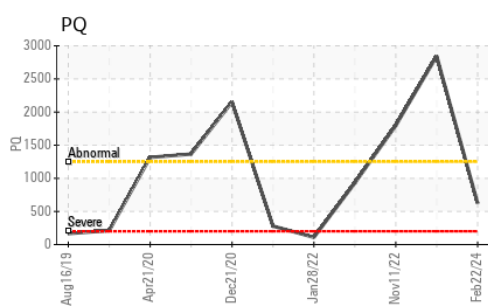
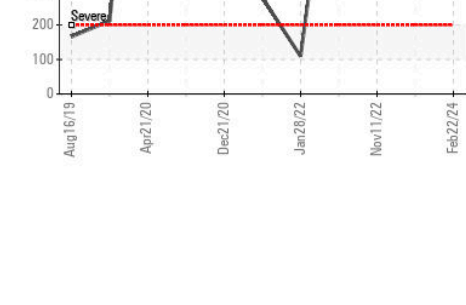
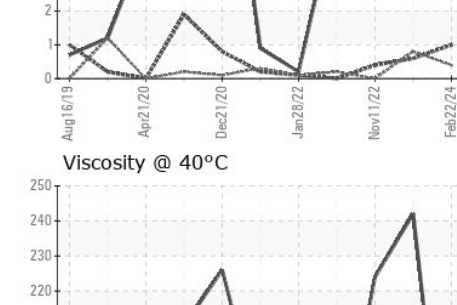
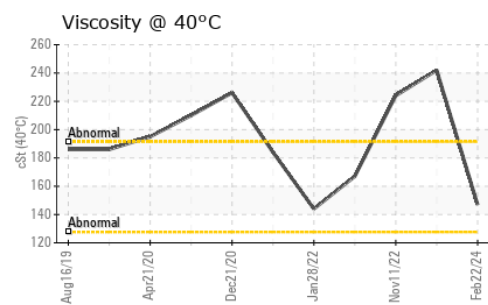
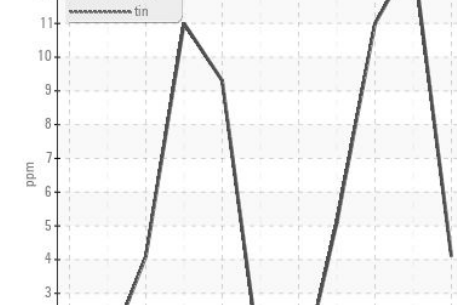
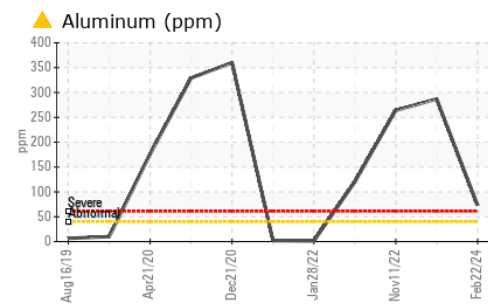
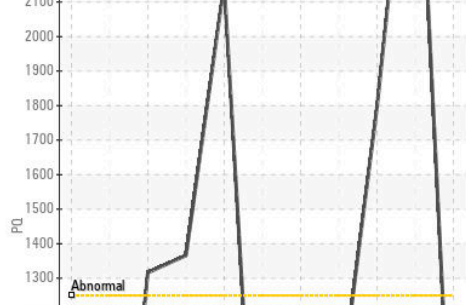
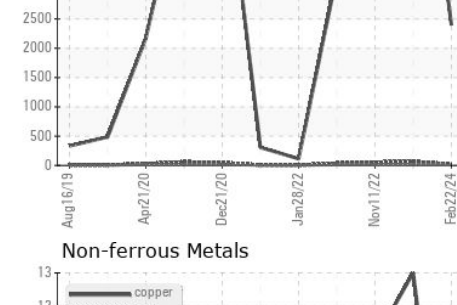
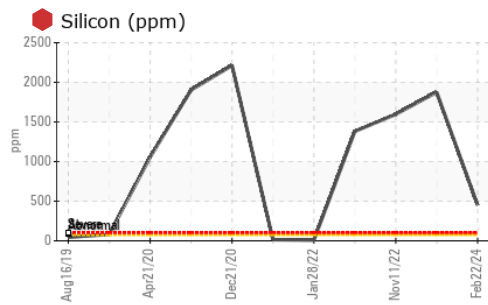
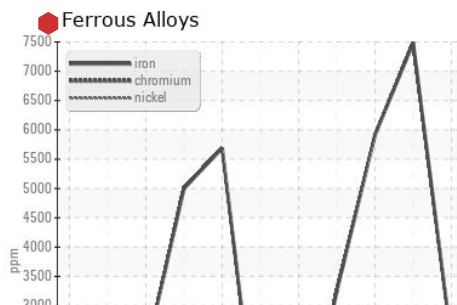
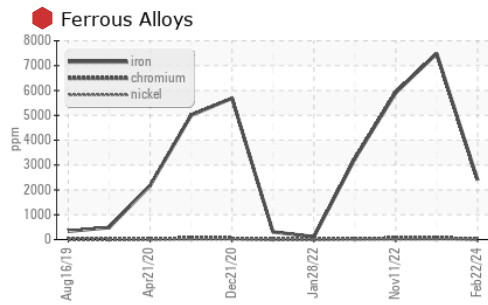
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate 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		JR0203123	JR0174458	JR0153255
Sample Date		Client Info		22 Feb 2024	31 May 2023	11 Nov 2022
Machine Age	hrs	Client Info		6469	5991	5527
Oil Age	hrs	Client Info		478	5453	538
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	N/A
Filter Changed		Client Info		None	None	N/A
Sample Status				SEVERE	SEVERE	SEVERE
PQ		ASTM D8184	>1250	625	2843	1796
Iron	ppm	ASTM D5185m	>750	2398	7484	5910
Chromium	ppm	ASTM D5185m	>9	18	68	52
Nickel	ppm	ASTM D5185m	>10	3	12	6
Titanium	ppm	ASTM D5185m		10	42	41
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>40	73	287	264
Lead	ppm	ASTM D5185m	>15	1	<1	<1
Copper	ppm	ASTM D5185m	>40	4	13	11
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	2	2
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	451	1875	1597
Potassium	ppm	ASTM D5185m	>20	19	71	67
Water		WC Method	>0.075	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	>0.075	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>51	6	25	19
Boron	ppm	ASTM D5185m		5	24	19
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	8	6
Manganese	ppm	ASTM D5185m		19	67	52
Magnesium	ppm	ASTM D5185m		11	27	22
Calcium	ppm	ASTM D5185m		19	37	34
Phosphorus	ppm	ASTM D5185m		331	315	288
Zinc	ppm	ASTM D5185m		7	9	20
Sulfur	ppm	ASTM D5185m		19716	21107	20378
Visc @ 40°C	cSt	ASTM D445		147	242	224



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0203123 **Received** : 26 Feb 2024
Lab Number : 06100328 **Tested** : 27 Feb 2024
Unique Number : 10898558 **Diagnosed** : 28 Feb 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

FITZGERALD EXCAVATING
 PO BOX 2168
 WINCHESTER, VA
 US 22604
 Contact: Service Manager

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)

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