James River Equipment

OIL ANALYSIS REPORT

WEAR	ATTENTION
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 160G 1FF160GXELF058026
Component
Left Final Drive
Fluid
GEAR OIL SAE 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

All component wear rates are normal.

CONTAMINATION

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

FLUID CONDITION

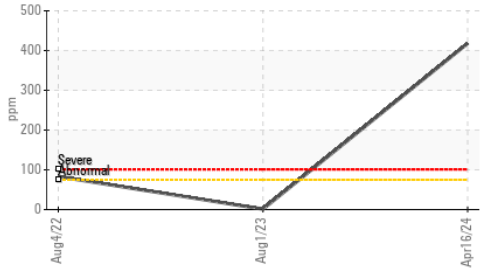
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0206290	JR0179006	JR0134271
Sample Date		Client Info		16 Apr 2024	01 Aug 2023	04 Aug 2022
Machine Age	hrs	Client Info		3999	3115	1799
Oil Age	hrs	Client Info		2683	1799	500
Filter Age	hrs	Client Info		0	0	500
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		N/A	Not Changd	Changed
Sample Status				SEVERE	NORMAL	ABNORMAL
PQ		ASTM D8184	>1250	753	12	190
Iron	ppm	ASTM D5185m	>750	1596	<1	▲ 646
Chromium	ppm	ASTM D5185m	>9	15	0	10
Nickel	ppm	ASTM D5185m	>10	4	0	0
Titanium	ppm	ASTM D5185m		15	<1	2
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>40	● 145	<1	● 10
Lead	ppm	ASTM D5185m	>15	1	0	0
Copper	ppm	ASTM D5185m	>40	3	<1	2
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 418	1	▲ 83
Potassium	ppm	ASTM D5185m	>20	11	2	2
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	>170	<1	4	1
Boron	ppm	ASTM D5185m	400	13	0	60
Barium	ppm	ASTM D5185m	200	3	0	5
Molybdenum	ppm	ASTM D5185m	12	2	<1	<1
Manganese	ppm	ASTM D5185m		16	0	16
Magnesium	ppm	ASTM D5185m	12	5	4	1
Calcium	ppm	ASTM D5185m	150	20	65	10
Phosphorus	ppm	ASTM D5185m	1650	1635	2345	514
Zinc	ppm	ASTM D5185m	125	17	23	38
Sulfur	ppm	ASTM D5185m	22500	27035	25056	14460
Visc @ 40°C	cSt	ASTM D445	143	161	364	184

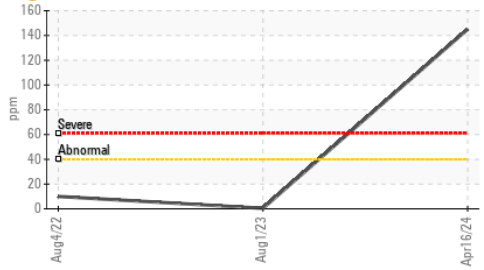
Report Id: JAMCHA [WUSCAR] 06153383 (Generated: 04/23/2024 15:51:16) Rev: 1

Submitted By: Ray Benson

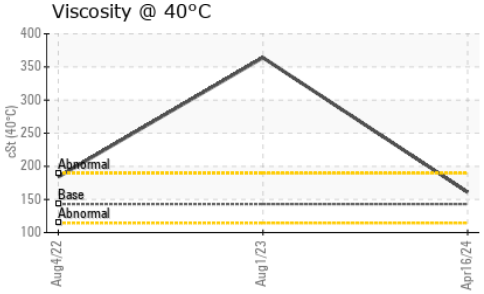
Silicon (ppm)



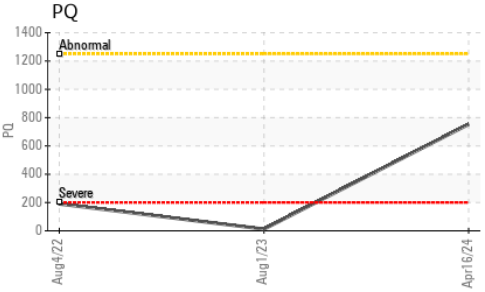
Aluminum (ppm)



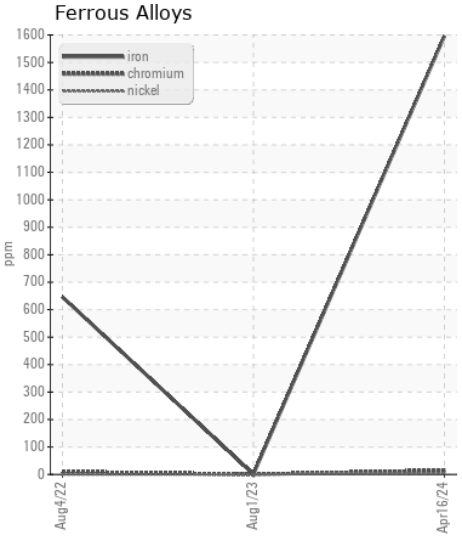
Viscosity @ 40°C



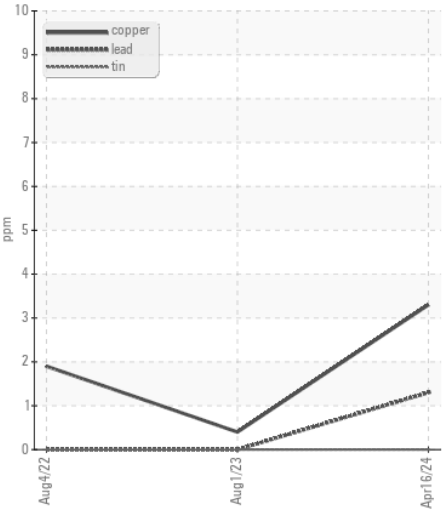
PQ



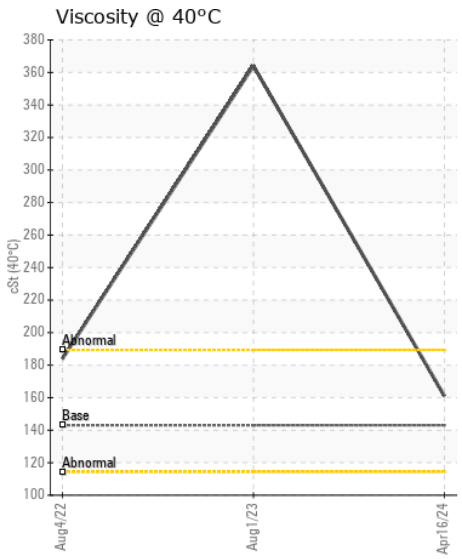
Ferrous Alloys



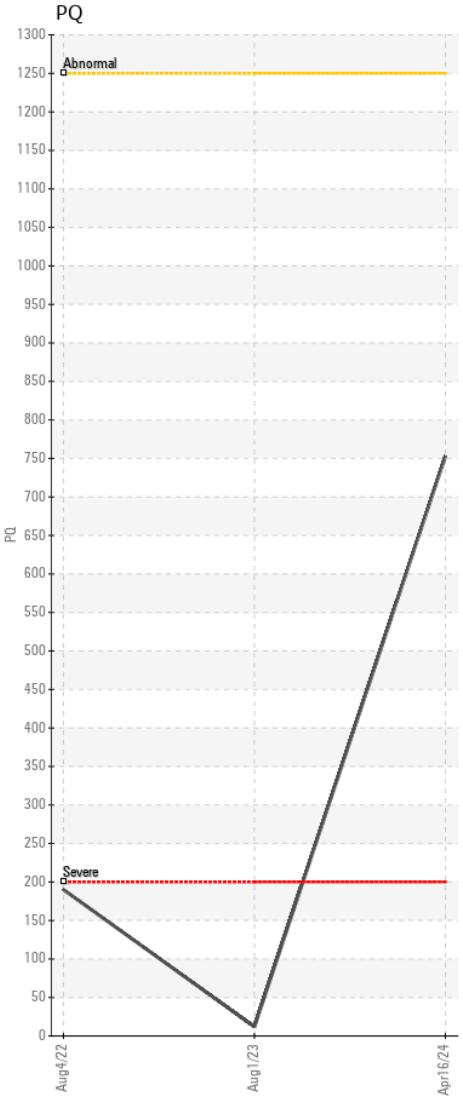
Non-ferrous Metals



Viscosity @ 40°C



PQ



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0206290
Lab Number : 06153383
Unique Number : 10983461
Test Package : CONST (Additional Tests: PQ)

Received : 18 Apr 2024
Tested : 19 Apr 2024
Diagnosed : 22 Apr 2024 - Sean Felton

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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