James River Equipment

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 333E 1T0333EMHEE257307
Component
Left Final Drive
Fluid
JOHN DEERE GL-5 80W90 (27 Oz)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. 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. There is a high concentration of water present in the oil.

FLUID CONDITION

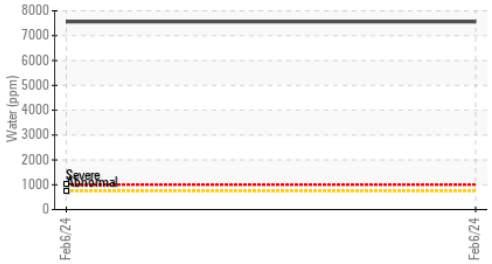
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0200277	JRMC451173	---
Sample Date		Client Info		06 Feb 2024	15 Oct 2018	---
Machine Age	hrs	Client Info		3137	1225	---
Oil Age	hrs	Client Info		0	1175	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				SEVERE	SEVERE	---
PQ		ASTM D8184	>1250	6669	149	---
Iron	ppm	ASTM D5185m	>750	20293	2287	---
Chromium	ppm	ASTM D5185m	>9	171	25	---
Nickel	ppm	ASTM D5185m	>10	122	12	---
Titanium	ppm	ASTM D5185m		75	4	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>40	992	45	---
Lead	ppm	ASTM D5185m	>15	3	<1	---
Copper	ppm	ASTM D5185m	>40	42	4	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		7	1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>75	6160	211	---
Potassium	ppm	ASTM D5185m	>20	335	17	---
Water	%	ASTM D6304	>0.075	0.756	---	---
ppm Water	ppm	ASTM D6304	>750	7560	---	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.075	0.2%	NEG	---
Sodium	ppm	ASTM D5185m	>51	81	26	---
Boron	ppm	ASTM D5185m		122	40	---
Barium	ppm	ASTM D5185m		6	10	---
Molybdenum	ppm	ASTM D5185m		33	0	---
Manganese	ppm	ASTM D5185m		159	27	---
Magnesium	ppm	ASTM D5185m		71	19	---
Calcium	ppm	ASTM D5185m		184	68	---
Phosphorus	ppm	ASTM D5185m		481	1465	---
Zinc	ppm	ASTM D5185m		2	73	---
Sulfur	ppm	ASTM D5185m		22390	19795	---
Visc @ 40°C	cSt	ASTM D445		---	145.9	---

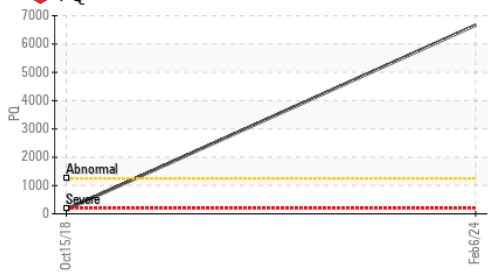
Report Id: JAMASH [WUSCAR] 06082736 (Generated: 02/09/2024 14:01:48) Rev: 1

Contact/Location: DAVID ZIEG - JAMASH

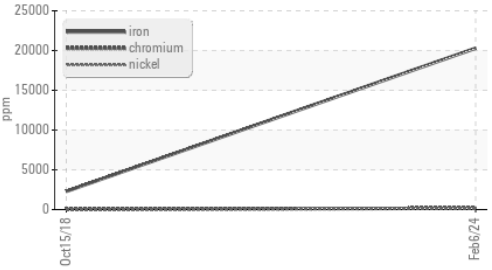
Water (KF)



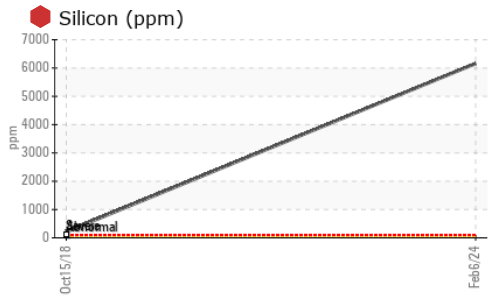
PQ



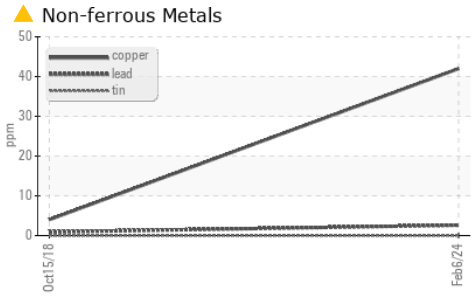
Ferrous Alloys



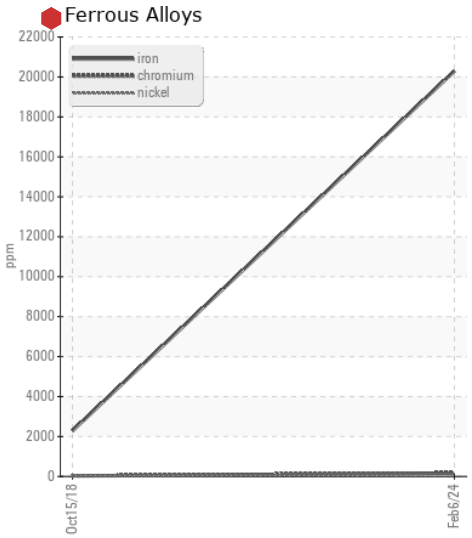
Silicon (ppm)



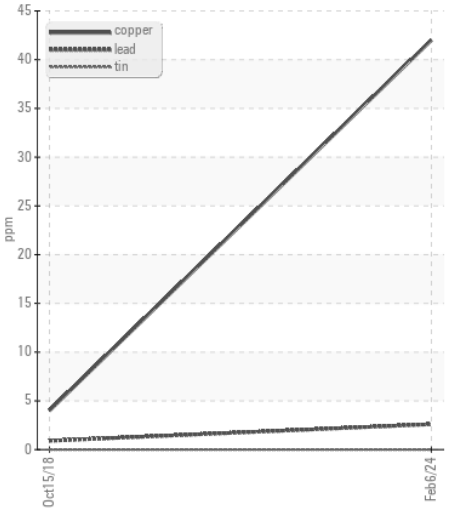
Non-ferrous Metals



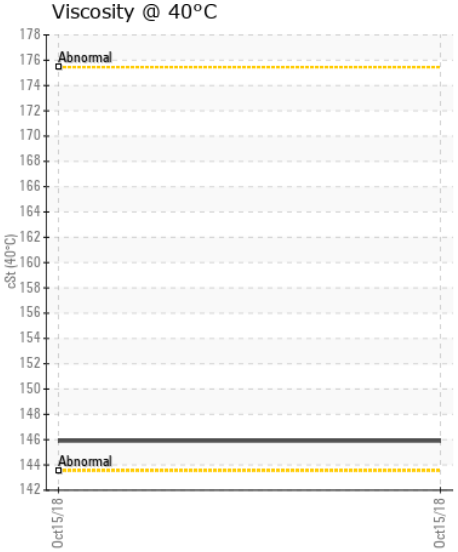
Ferrous Alloys



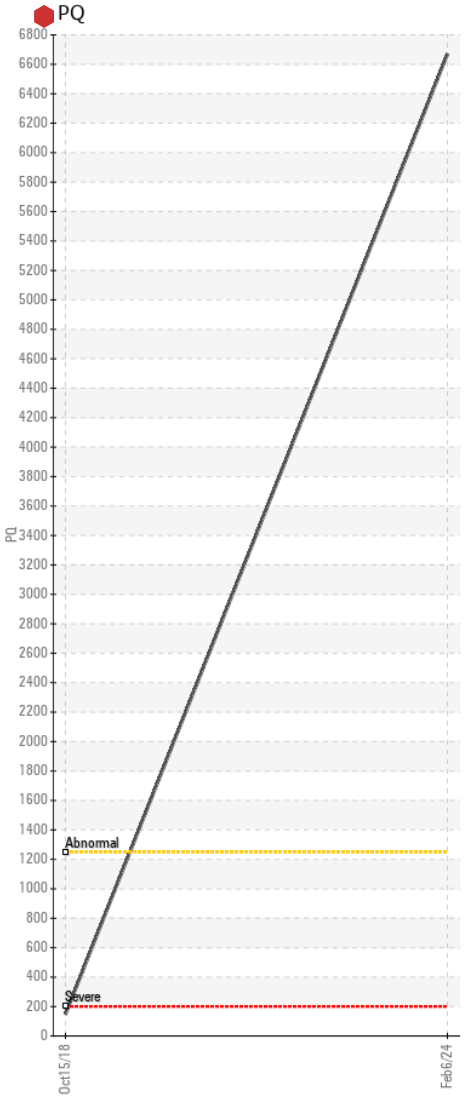
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0200277 **Received** : 07 Feb 2024
Lab Number : 06082736 **Tested** : 09 Feb 2024
Unique Number : 10870181 **Diagnosed** : 09 Feb 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: KF, PQ)

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)

JRE - ASHLAND
11047 LEADBETTER RD
ASHLAND, VA
US 23005
Contact: DAVID ZIEG
dzieg@jamesriverequipment.com
T: (804)798-6001
F: (804)798-0292