James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 644L 1DW644LHTML709320
Component
Rear Axle
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

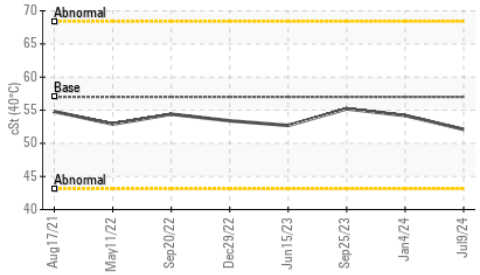
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0218527	JR0199057	JR0187424
Sample Date		Client Info		09 Jul 2024	04 Jan 2024	25 Sep 2023
Machine Age	hrs	Client Info		5869	5374	4916
Oil Age	hrs	Client Info		4948	4911	463
Filter Age	hrs	Client Info		4948	0	463
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
PQ		ASTM D8184		29	33	29
Iron	ppm	ASTM D5185m	>750	199	139	102
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>21	3	<1	3
Lead	ppm	ASTM D5185m	>49	<1	<1	<1
Copper	ppm	ASTM D5185m	>101	15	7	6
Tin	ppm	ASTM D5185m	>10	1	1	1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>31	18	15	12
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>51	0	<1	<1
Boron	ppm	ASTM D5185m	6	7	6	5
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	7	4	6
Manganese	ppm	ASTM D5185m		2	2	1
Magnesium	ppm	ASTM D5185m	145	119	113	115
Calcium	ppm	ASTM D5185m	3570	3468	3204	3242
Phosphorus	ppm	ASTM D5185m	1290	1108	1032	1006
Zinc	ppm	ASTM D5185m	1640	1247	1181	1239
Sulfur	ppm	ASTM D5185m		3713	3561	3603
Visc @ 40°C	cSt	ASTM D445	57.0	52.1	54.2	55.2

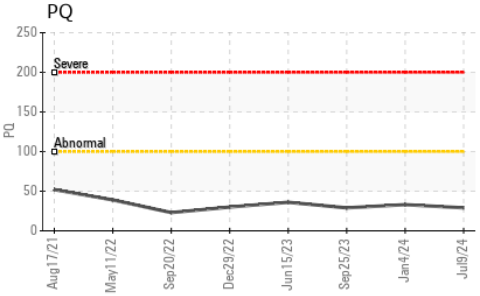
Report Id: JAMMAN [WUSCAR] 06233522 (Generated: 07/15/2024 10:30:10) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

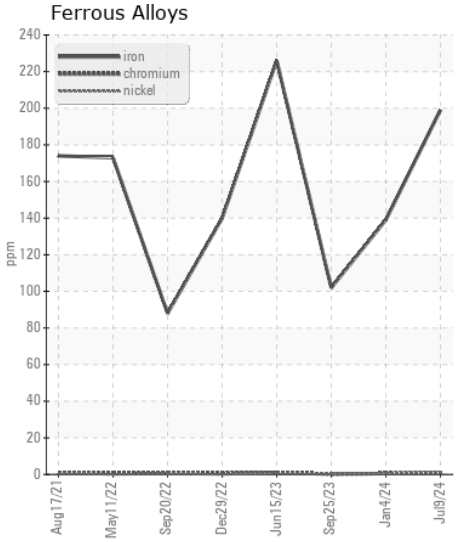
Viscosity @ 40°C



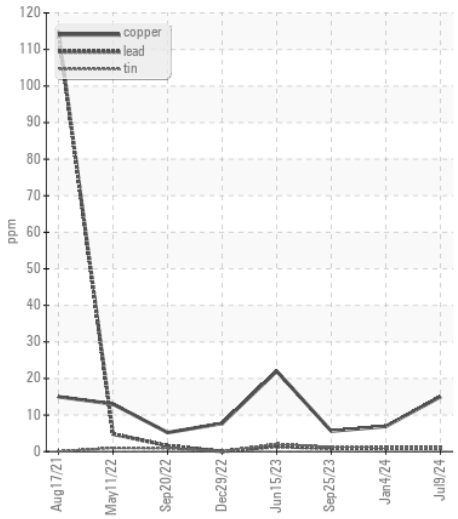
PQ



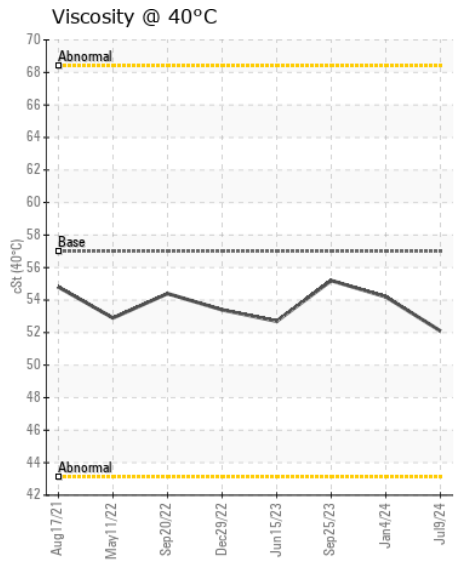
Ferrous Alloys



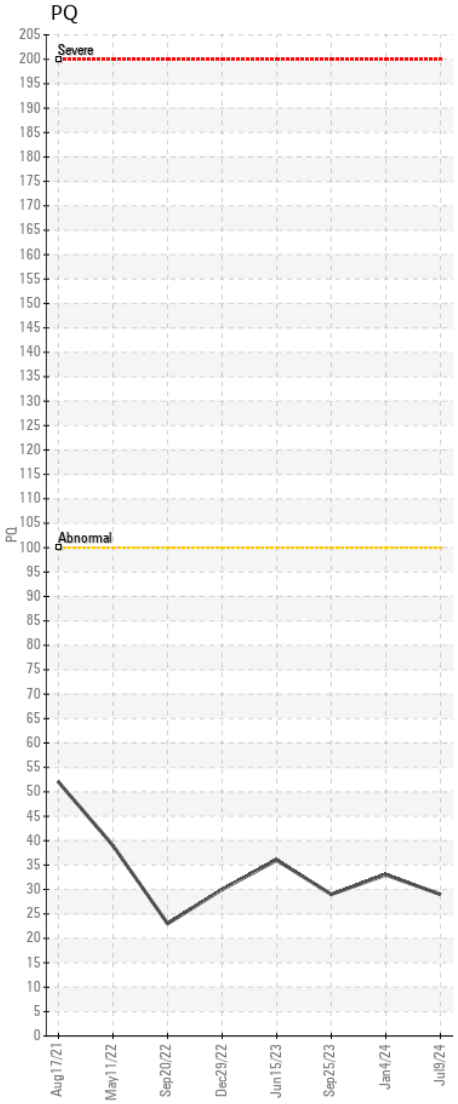
Non-ferrous Metals



Viscosity @ 40°C



PQ



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0218527
Lab Number : 06233522
Unique Number : 11117015
Test Package : CONST (Additional Tests: PQ)

Received : 11 Jul 2024
Tested : 15 Jul 2024
Diagnosed : 15 Jul 2024 - Don Baldridge

Certificate L2367

JRE - MANASSAS PARK
9107 OWENS DRIVE
MANASSAS PARK, VA
US 20111
Contact: DON VEST
dvest@jamesriverequipment.com
T: (703)631-8500
F: (703)631-4715

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)