James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 544 P 1DW544PAPMLZ12265
Component
Front Differential
Fluid
JOHN DEERE HY-GARD HYD/TRANS (18 QTS)

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

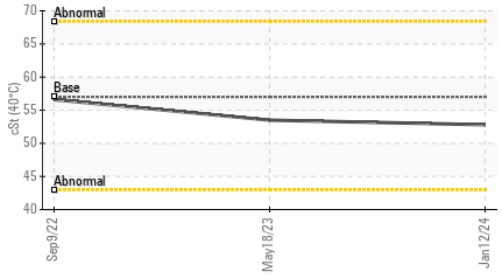
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**JR0196285**	JR0173671	JR0138255
Sample Date		Client Info		**12 Jan 2024**	18 May 2023	09 Sep 2022
Machine Age	hrs	Client Info		**1009**	555	60
Oil Age	hrs	Client Info		**0**	555	60
Filter Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Filter Changed		Client Info		**Not Changd**	N/A	N/A
Sample Status				**NORMAL**	NORMAL	NORMAL
PQ		ASTM D8184		**227**	145	64
Iron	ppm	ASTM D5185m	>500	**333**	247	65
Chromium	ppm	ASTM D5185m	>10	**3**	2	1
Nickel	ppm	ASTM D5185m	>10	**<1**	1	<1
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**2**	<1	2
Lead	ppm	ASTM D5185m	>25	**12**	10	7
Copper	ppm	ASTM D5185m	>100	**49**	33	9
Tin	ppm	ASTM D5185m	>10	**3**	2	<1
Vanadium	ppm	ASTM D5185m		**0**	0	<1
White Metal	scalar	*Visual	NONE	**NONE**	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	**20**	20	14
Potassium	ppm	ASTM D5185m	>20	**3**	4	4
Water		WC Method	>.2	**NEG**	NEG	NEG
Silt	scalar	*Visual	NONE	**MODER**	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	>.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185m		**5**	6	5
Boron	ppm	ASTM D5185m	6	**<1**	7	9
Barium	ppm	ASTM D5185m	0	**4**	0	0
Molybdenum	ppm	ASTM D5185m	0	**0**	<1	<1
Manganese	ppm	ASTM D5185m		**14**	15	11
Magnesium	ppm	ASTM D5185m	145	**97**	100	98
Calcium	ppm	ASTM D5185m	3570	**3335**	3466	3374
Phosphorus	ppm	ASTM D5185m	1290	**1016**	989	1007
Zinc	ppm	ASTM D5185m	1640	**1222**	1272	1259
Sulfur	ppm	ASTM D5185m		**3341**	3917	3586
Visc @ 40°C	cSt	ASTM D445	57.0	**52.8**	53.5	56.6

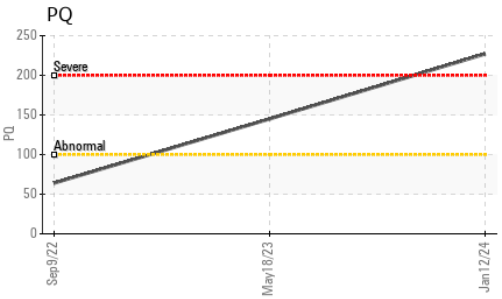
Report Id: RWMCAS [WUSCAR] 06061449 (Generated: 01/18/2024 03:19:02) Rev: 1

Submitted By: JACOB HARVEY

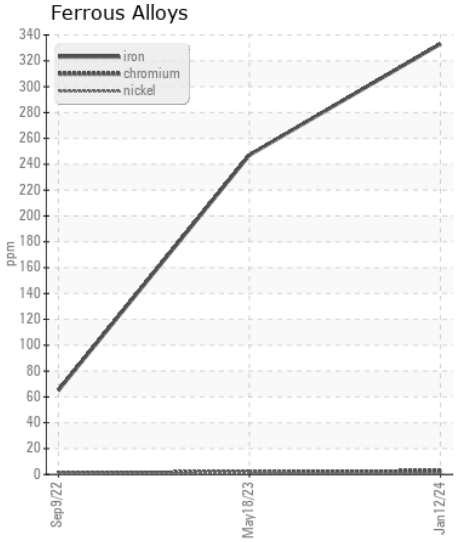
Viscosity @ 40°C



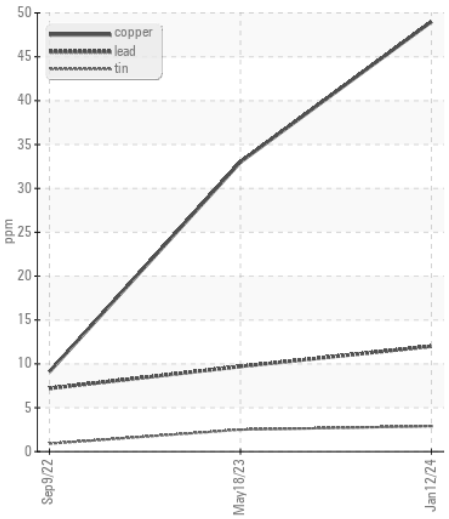
PQ



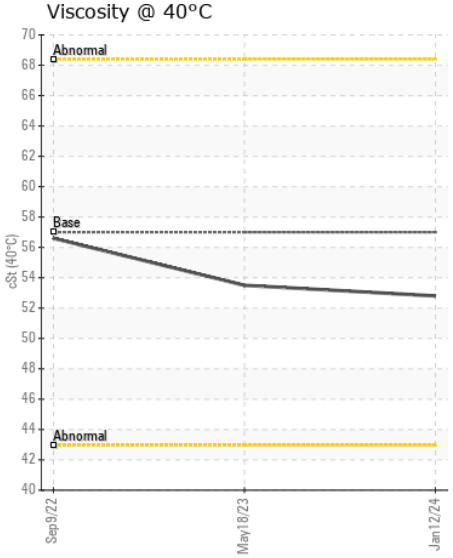
Ferrous Alloys



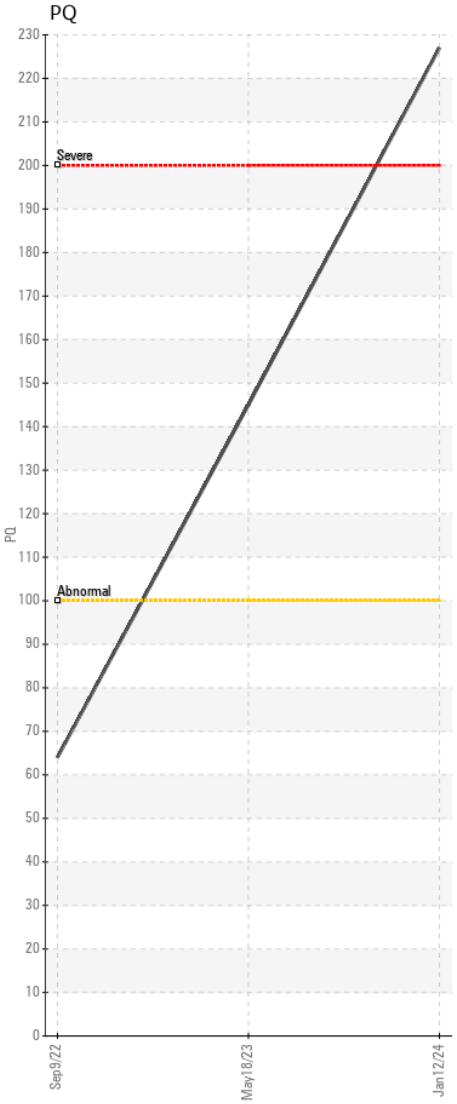
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0196285 **Recieved** : 16 Jan 2024
Lab Number : 06061449 **Diagnosed** : 17 Jan 2024
Unique Number : 10832831 **Diagnostician** : Sean Felton
Test Package : CONST (Additional Tests: 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 - CASTLE HAYNE
113 CROWATAN ROAD
CASTLE HAYNE, NC
US 28429-5819
Contact: WILMINGTON SHOP
todd.simmons@jamesriverequipment.com;canastasio@wearcheck.com;canastasio@we
T: (910)675-9211
F: