James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 644K 1DW644KPCA0630483
Component
Brake
Fluid
JOHN DEERE HY-GARD HYD/TRANS (2 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

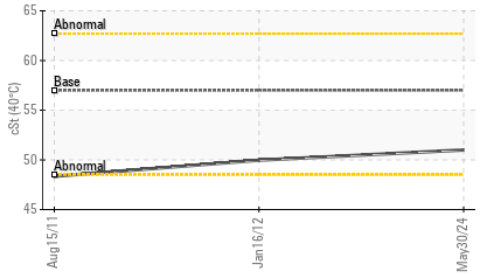
There is no indication of any contamination in the fluid.

FLUID CONDITION

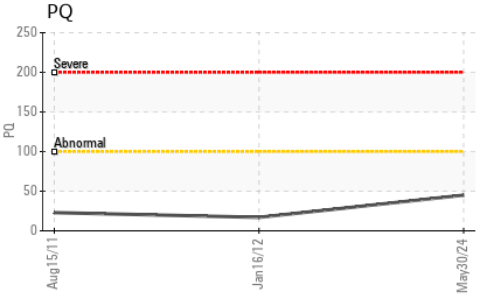
The condition of the fluid is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**JR0213086**	JRMC353960	JRMC252357
Sample Date		Client Info		**30 May 2024**	16 Jan 2012	15 Aug 2011
Machine Age	hrs	Client Info		**26437**	3663	2534
Oil Age	hrs	Client Info		**0**	500	1000
Filter Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	Changed	N/A
Filter Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**NORMAL**	MARGINAL	ABNORMAL
PQ		ASTM D8184		**45**	17.0	23.0
Iron	ppm	ASTM D5185m	>350	**289**	36	53
Chromium	ppm	ASTM D5185m	>5	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>5	**0**	<1	0
Titanium	ppm	ASTM D5185m		**<1**	0	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>8	**6**	<1	2
Lead	ppm	ASTM D5185m	>10	**0**	2	11
Copper	ppm	ASTM D5185m	>150	**2**	4	15
Tin	ppm	ASTM D5185m	>5	**<1**	<1	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
White Metal	scalar	*Visual	NONE	**NONE**	LIGHT	LIGHT
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>400	**32**	▲ 68	▲ 148
Potassium	ppm	ASTM D5185m	>20	**<1**	5	0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	LIGHT
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	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185m		**25**	62	145
Boron	ppm	ASTM D5185m	6	**11**	7	12
Barium	ppm	ASTM D5185m	0	**0**	0	<1
Molybdenum	ppm	ASTM D5185m	0	**47**	33	61
Manganese	ppm	ASTM D5185m		**3**	1	1
Magnesium	ppm	ASTM D5185m	145	**104**	59	74
Calcium	ppm	ASTM D5185m	3570	**3289**	3351	2934
Phosphorus	ppm	ASTM D5185m	1290	**1153**	1054	1018
Zinc	ppm	ASTM D5185m	1640	**1220**	1191	1185
Sulfur	ppm	ASTM D5185m		**4960**	3077	3682
Visc @ 40°C	cSt	ASTM D445	57.0	**51.0**	49.97	48.35

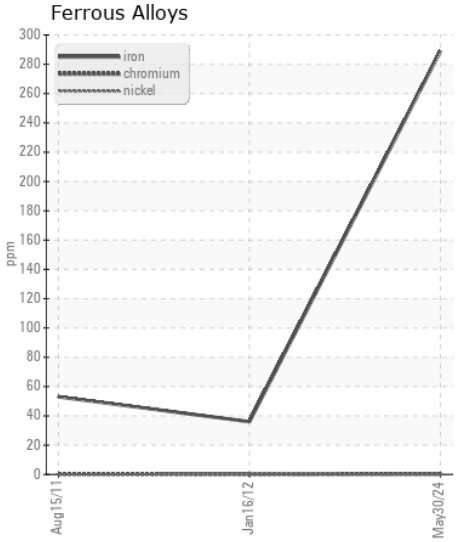
Viscosity @ 40°C



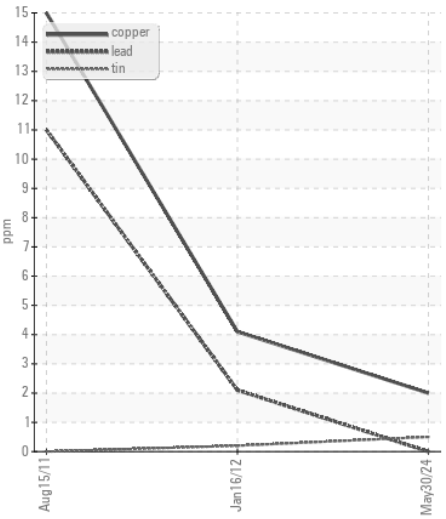
PQ



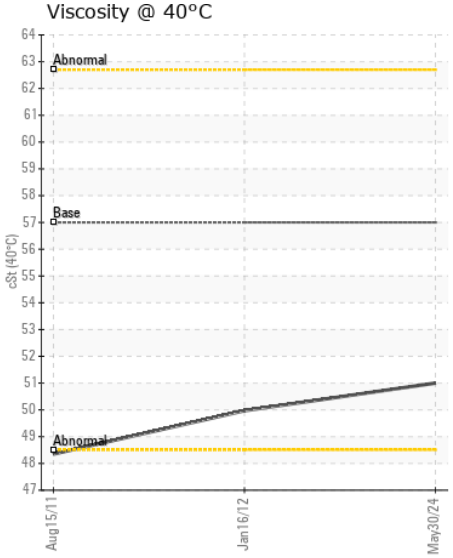
Ferrous Alloys



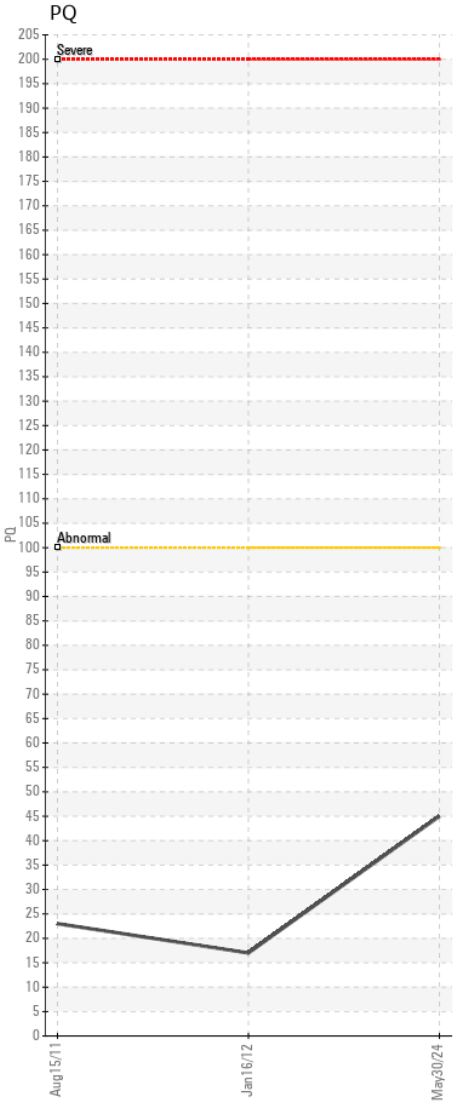
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0213086
Lab Number : 06196973
Unique Number : 11059096
Test Package : CONST (Additional Tests: PQ)

Received : 31 May 2024
Tested : 03 Jun 2024
Diagnosed : 04 Jun 2024 - Sean Felton

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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