CONST

WARRIOR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 644P 1DW644PATPLZ18039
Component
Brake
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- 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

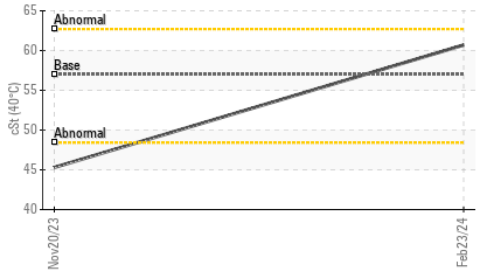
The condition of the fluid is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WE0006288**	WE0005737	---
Sample Date		Client Info		**23 Feb 2024**	20 Nov 2023	---
Machine Age	hrs	Client Info		**1559**	1043	---
Oil Age	hrs	Client Info		**0**	0	---
Filter Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**Changed**	Changed	---
Filter Changed		Client Info		**Not Changd**	Changed	---
Sample Status				**NORMAL**	ABNORMAL	---
PQ		ASTM D8184		**13**	27	---
Iron	ppm	ASTM D5185m	>350	**2**	33	---
Chromium	ppm	ASTM D5185m	>5	**0**	0	---
Nickel	ppm	ASTM D5185m	>5	**0**	<1	---
Titanium	ppm	ASTM D5185m		**0**	0	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>8	**<1**	2	---
Lead	ppm	ASTM D5185m	>10	**2**	▲ 82	---
Copper	ppm	ASTM D5185m	>150	**5**	2	---
Tin	ppm	ASTM D5185m	>5	**<1**	0	---
Vanadium	ppm	ASTM D5185m		**0**	<1	---
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Silicon	ppm	ASTM D5185m	>400	**5**	237	---
Potassium	ppm	ASTM D5185m	>20	**0**	0	---
Water		WC Method	>0.2	**NEG**	NEG	---
Silt	scalar	*Visual	NONE	**NONE**	MODER	---
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	>0.2	**NEG**	NEG	---
Sodium	ppm	ASTM D5185m		**<1**	12	---
Boron	ppm	ASTM D5185m	6	**0**	125	---
Barium	ppm	ASTM D5185m	0	**0**	2	---
Molybdenum	ppm	ASTM D5185m	0	**0**	267	---
Manganese	ppm	ASTM D5185m		**<1**	<1	---
Magnesium	ppm	ASTM D5185m	145	**108**	482	---
Calcium	ppm	ASTM D5185m	3570	**3445**	1390	---
Phosphorus	ppm	ASTM D5185m	1290	**1069**	752	---
Zinc	ppm	ASTM D5185m	1640	**1284**	821	---
Sulfur	ppm	ASTM D5185m		**3546**	2245	---
Visc @ 40°C	cSt	ASTM D445	57.0	**60.7**	45.3	---

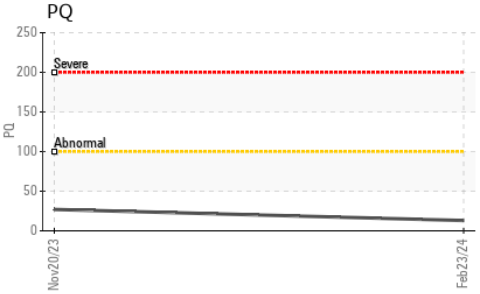
Report Id: WARNOR [WUSCAR] 06101928 (Generated: 02/29/2024 14:09:21) Rev: 1

Contact/Location: PAMELA CLARK - WARNOR

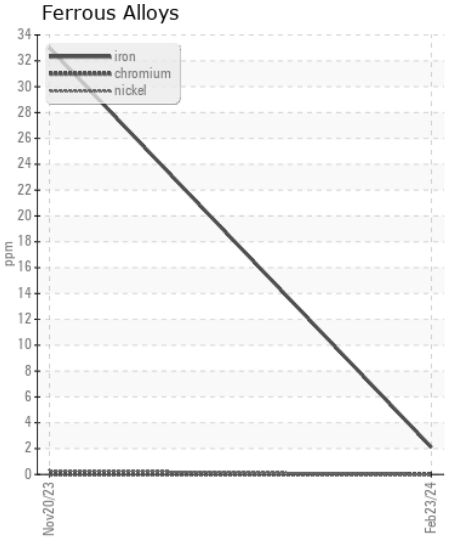
Viscosity @ 40°C



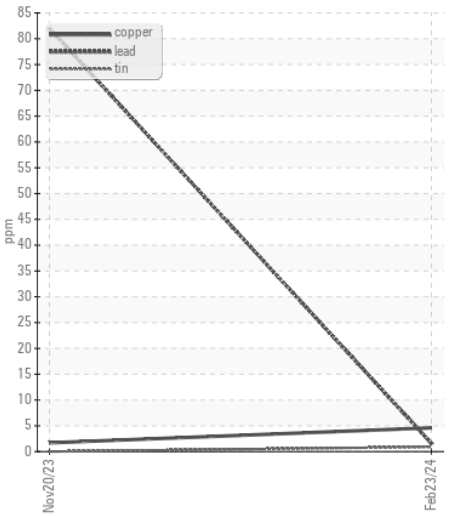
PQ



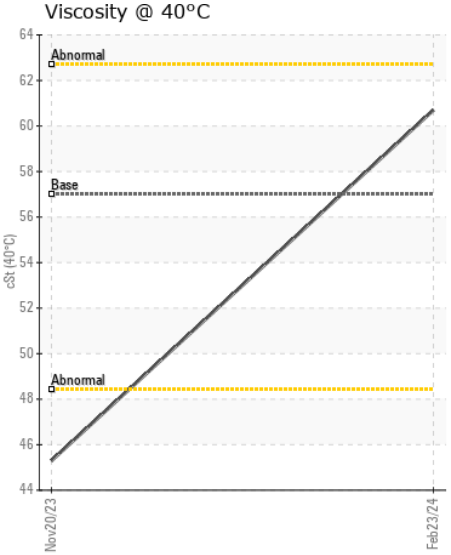
Ferrous Alloys



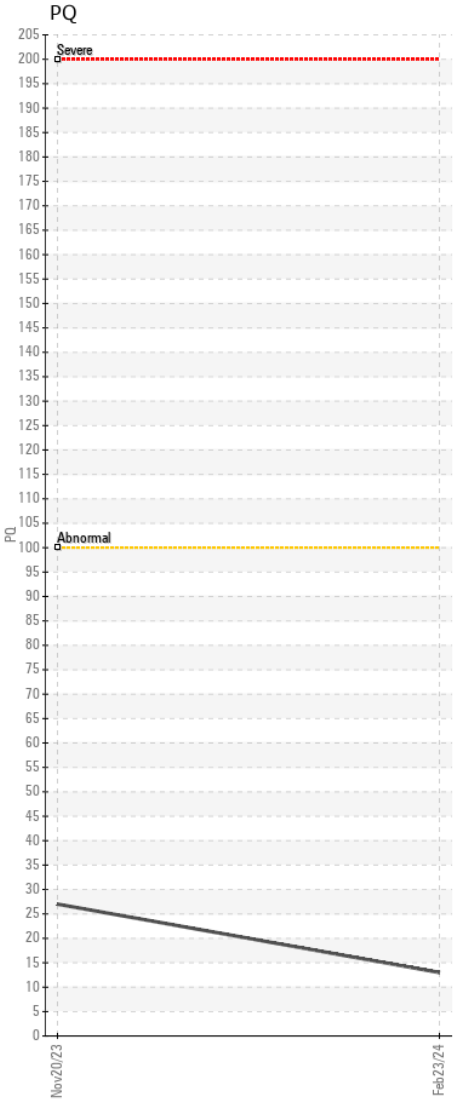
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WE0006288
Lab Number : 06101928
Unique Number : 10900158
Test Package : CONST (Additional Tests: PQ)

Received : 27 Feb 2024
Tested : 28 Feb 2024
Diagnosed : 29 Feb 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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