OIL ANALYSIS REPORT

OIL DIAGNOSTICS

Sample Rating Trend

WEAR

Machine Id
JOHN DEERE 644P 1DW644PAANLZ15485
Component
Front Differential
Fluid
JOHN DEERE HY-GARD HYD/TRANS (6 GAL)

DIAGNOSIS

▲ Recommendation
Resample at the next service interval to monitor.

▲ Wear
Bearing and/or bushing wear is indicated.

Contamination
There is no indication of any contamination in the oil.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0118284**	PCA0105137	PCA0096409
Sample Date		Client Info		**23 Apr 2024**	12 Mar 2024	04 Oct 2023
Machine Age	hrs	Client Info		**4061**	3855	2000
Oil Age	hrs	Client Info		**206**	1855	2000
Oil Changed		Client Info		**N/A**	Changed	Changed
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>.2	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	**49**	43	35
Chromium	ppm	ASTM D5185m	>10	**<1**	<1	0
Nickel	ppm	ASTM D5185m	>10	**<1**	<1	0
Titanium	ppm	ASTM D5185m		**<1**	<1	0
Silver	ppm	ASTM D5185m		**0**	<1	<1
Aluminum	ppm	ASTM D5185m	>25	**2**	<1	<1
Lead	ppm	ASTM D5185m	>25	▲ **46**	▲ 45	▲ 40
Copper	ppm	ASTM D5185m	>100	▲ **208**	▲ 160	▲ 107
Tin	ppm	ASTM D5185m	>10	**3**	4	5
Vanadium	ppm	ASTM D5185m		**<1**	<1	0
Cadmium	ppm	ASTM D5185m		**<1**	<1	0

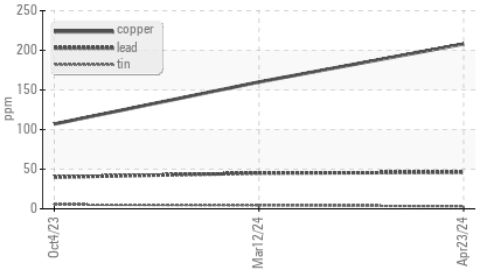
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	**19**	15	5
Barium	ppm	ASTM D5185m	0	**0**	<1	<1
Molybdenum	ppm	ASTM D5185m	0	**<1**	<1	0
Manganese	ppm	ASTM D5185m		**1**	1	<1
Magnesium	ppm	ASTM D5185m	145	**78**	87	94
Calcium	ppm	ASTM D5185m	3570	**3094**	3155	3245
Phosphorus	ppm	ASTM D5185m	1290	**1016**	1167	1076
Zinc	ppm	ASTM D5185m	1640	**1168**	1220	1231
Sulfur	ppm	ASTM D5185m		**3814**	4270	3549

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	**7**	6	5
Sodium	ppm	ASTM D5185m		**0**	4	<1
Potassium	ppm	ASTM D5185m	>20	**3**	4	<1

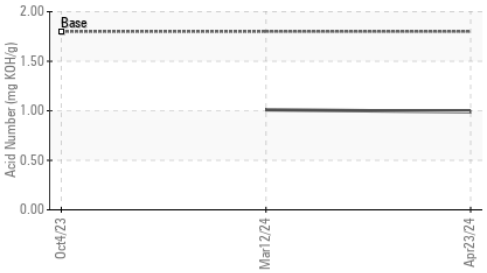
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	**0.99**	1.01	---

OIL ANALYSIS REPORT

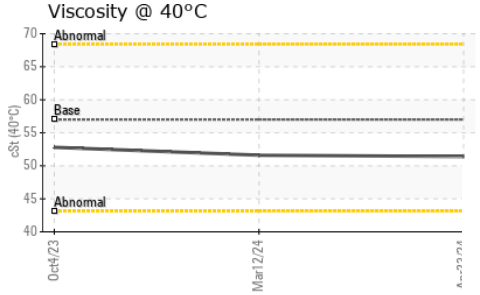
Non-ferrous Metals



Acid Number



Viscosity @ 40°C



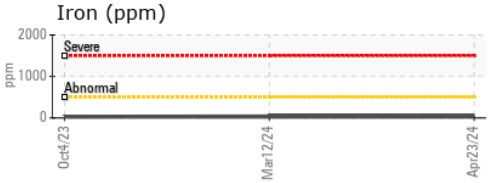
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.0	**51.4**	51.6	52.8

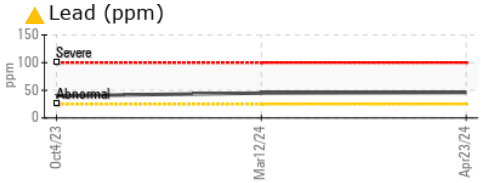
SAMPLE IMAGES				current	history1	history2
Color				*no image*	*no image*	*no image*
Bottom				*no image*	*no image*	*no image*

GRAPHS

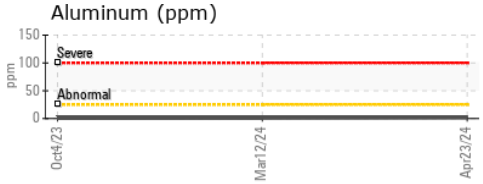
Iron (ppm)



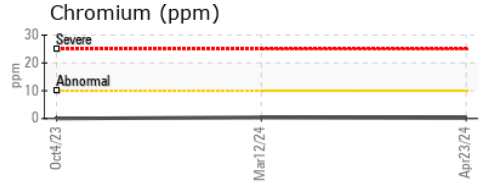
Lead (ppm)



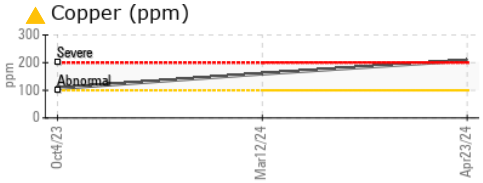
Aluminum (ppm)



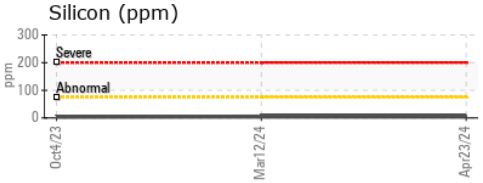
Chromium (ppm)



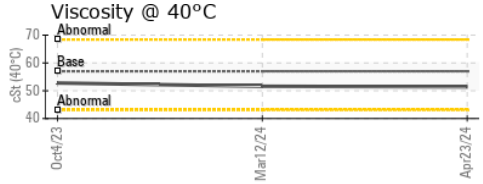
Copper (ppm)



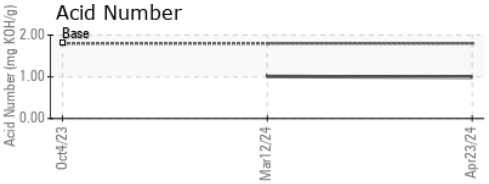
Silicon (ppm)



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0118284
Lab Number : 06177830
Unique Number : 11029156
Test Package : MOB 2

Received : 13 May 2024
Tested : 14 May 2024
Diagnosed : 15 May 2024 - Angela Borella

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)

CENTRAL VALLEY AG
5707 LANGWORTH
OAKDALE, CA
US 95361
Contact: LAB TECH
m-labtech@outlook.com
T:
F:

Report Id: CENOAK [WUSCAR] 06177830 (Generated: 05/15/2024 17:40:16) Rev: 1

Submitted By: LAB TECH