



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
SOLD LOCATIONS - LESCHI - CHILLICOTHE
Machine Id
JOHN DEERE 644J DW644JZ616347
Component
Front Differential
Fluid
JOHN DEERE HY-GARD HYD/TRANS (6 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0038957	LEC0033126	LEC0027612
Sample Date		Client Info		15 Feb 2023	24 May 2022	04 Jan 2022
Machine Age	hrs	Client Info		17371	16524	15997
Oil Age	hrs	Client Info		2347	1500	973
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		None	None	None
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		30	40	49
Iron	ppm	ASTM D5185m		282	238	204
Chromium	ppm	ASTM D5185m		1	<1	<1
Nickel	ppm	ASTM D5185m		2	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m		<1	2	2
Lead	ppm	ASTM D5185m		38	28	26
Copper	ppm	ASTM D5185m		21	15	15
Tin	ppm	ASTM D5185m		1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

There is no indication of any contamination in the oil.

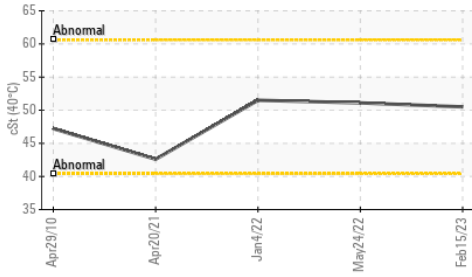
Silicon	ppm	ASTM D5185m		12	10	10
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water		WC Method		NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual		NEG	NEG	NEG

FLUID CONDITION

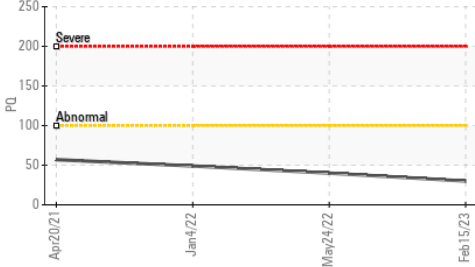
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		1	<1	<1
Boron	ppm	ASTM D5185m		16	20	10
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	2	2
Manganese	ppm	ASTM D5185m		2	2	2
Magnesium	ppm	ASTM D5185m		94	92	95
Calcium	ppm	ASTM D5185m		3195	3155	3311
Phosphorus	ppm	ASTM D5185m		917	946	993
Zinc	ppm	ASTM D5185m		1117	1150	1157
Sulfur	ppm	ASTM D5185m		3838	3490	3530
Visc @ 40°C	cSt	ASTM D445		50.5	51.1	51.5

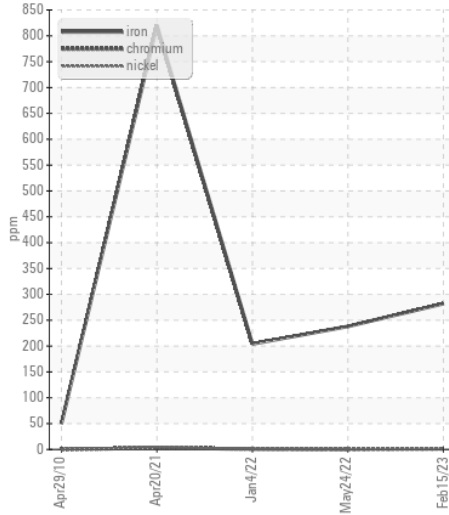
Viscosity @ 40°C



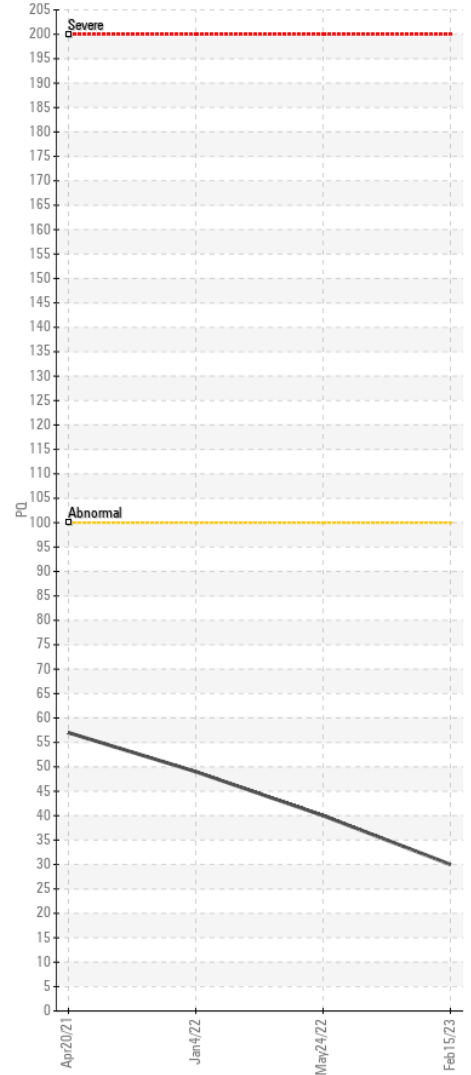
PQ



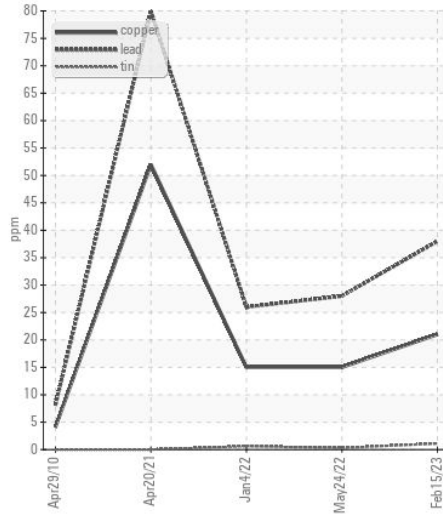
Ferrous Alloys



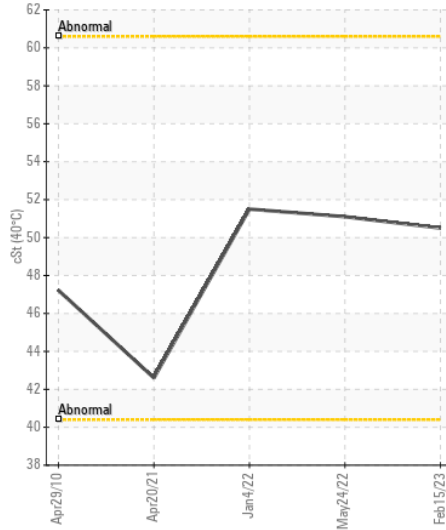
PQ



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0038957 **Received** : 17 Feb 2023
Lab Number : 05770982 **Tested** : 20 Feb 2023
Unique Number : 10345599 **Diagnosed** : 20 Feb 2023 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

LESLIE EQUIPMENT COMPANY
 105 TENNIS CENTER DR.
 MARIETTA, OH
 US 45750-9765
 Contact: LEANNE KENDALL
 KendalLeanne@lec1.com

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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