



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 624K 1DW624KZTBD640975
Component
Front Differential
Fluid
JOHN DEERE HY-GARD HYD/TRANS (23 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0218882	JR0201487	JR0094099
Sample Date		Client Info		08 Jul 2024	18 Jan 2024	13 Aug 2021
Machine Age	hrs	Client Info		16318	15936	15010
Oil Age	hrs	Client Info		1308	926	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		79	107	50
Iron	ppm	ASTM D5185m	>500	331	249	742
Chromium	ppm	ASTM D5185m	>10	1	1	3
Nickel	ppm	ASTM D5185m	>10	<1	<1	2
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	2
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>100	7	4	16
Tin	ppm	ASTM D5185m	>10	0	<1	1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

There is no indication of any contamination in the oil.

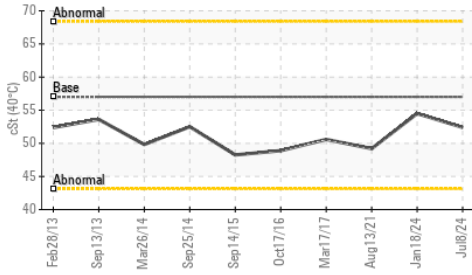
Silicon	ppm	ASTM D5185m	>75	16	15	22
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG

FLUID CONDITION

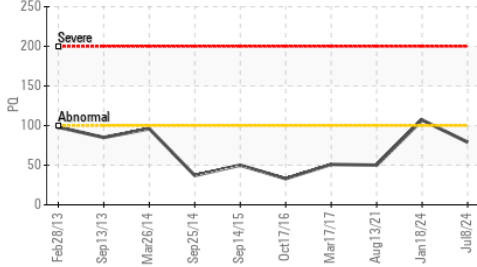
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		0	2	6
Boron	ppm	ASTM D5185m	6	<1	<1	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	2	2	2
Manganese	ppm	ASTM D5185m		2	2	6
Magnesium	ppm	ASTM D5185m	145	100	101	100
Calcium	ppm	ASTM D5185m	3570	3597	3173	3724
Phosphorus	ppm	ASTM D5185m	1290	1054	970	1111
Zinc	ppm	ASTM D5185m	1640	1182	1092	1214
Sulfur	ppm	ASTM D5185m		3496	3259	3445
Visc @ 40°C	cSt	ASTM D445	57.0	52.4	54.5	49.2

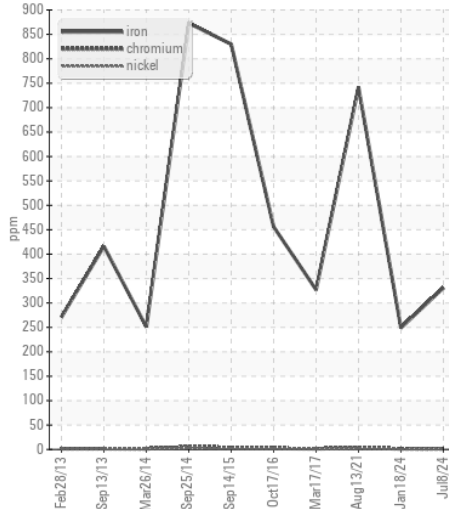
Viscosity @ 40°C



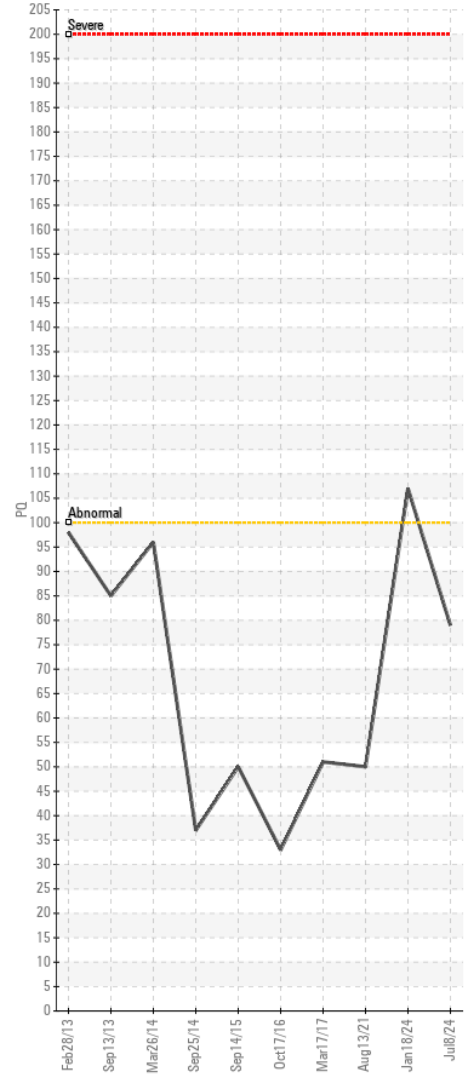
PQ



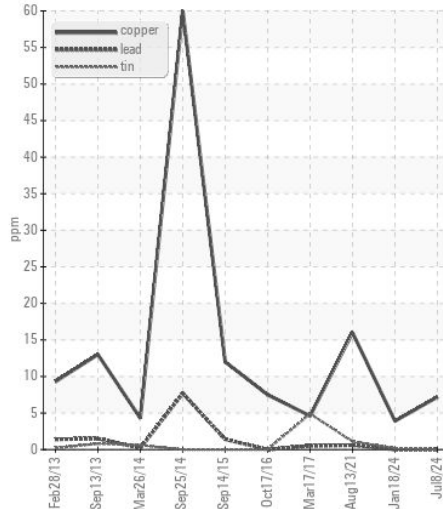
Ferrous Alloys



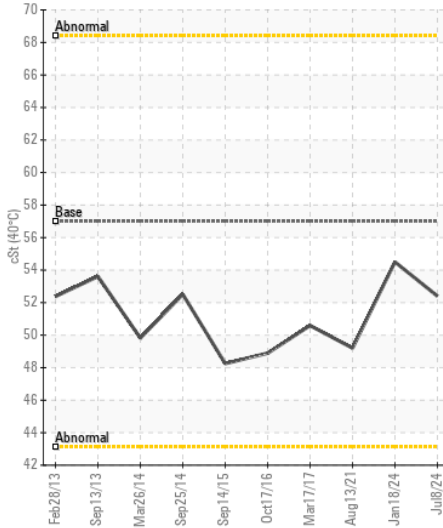
PQ



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0218882

Lab Number : 06235198

Unique Number : 11124032

Test Package : CONST (Additional Tests: PQ)

Received : 12 Jul 2024

Tested : 15 Jul 2024

Diagnosed : 15 Jul 2024 - Wes Davis

JRE - ASHEVILLE

101 BRUCE DRIVE

ASHEVILLE, NC

US 28806

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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)