



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 644K 1DW644KZAJF690443

Component
Brake

Fluid
JOHN DEERE HY-GARD HYD/TRANS (1 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0193585	JR0173801	JR0154855
Sample Date		Client Info		04 Jan 2024	06 Jun 2023	01 Feb 2023
Machine Age	hrs	Client Info		7050	6529	6101
Oil Age	hrs	Client Info		1000	428	1001
Filter Age	hrs	Client Info		1000	0	0
Oil Changed		Client Info		Changed	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		ASTM D8184		136	133	69
Iron	ppm	ASTM D5185m	>350	144	141	115
Chromium	ppm	ASTM D5185m	>5	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>8	12	11	13
Lead	ppm	ASTM D5185m	>10	2	1	3
Copper	ppm	ASTM D5185m	>150	<1	0	<1
Tin	ppm	ASTM D5185m	>5	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

There is no indication of any contamination in the oil.

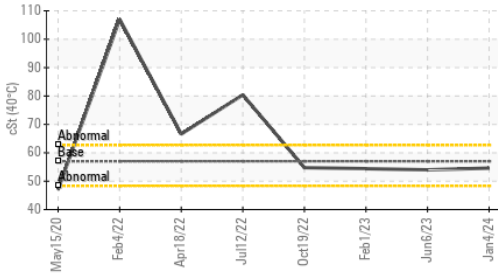
Silicon	ppm	ASTM D5185m	>400	138	140	99
Potassium	ppm	ASTM D5185m	>20	4	4	4
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	LIGHT	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

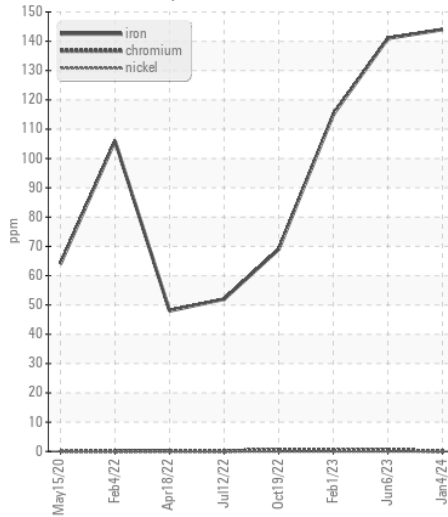
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		11	7	7
Boron	ppm	ASTM D5185m	6	12	10	18
Barium	ppm	ASTM D5185m	0	1	0	1
Molybdenum	ppm	ASTM D5185m	0	7	7	8
Manganese	ppm	ASTM D5185m		1	2	2
Magnesium	ppm	ASTM D5185m	145	94	102	100
Calcium	ppm	ASTM D5185m	3570	3151	3316	2983
Phosphorus	ppm	ASTM D5185m	1290	967	1026	915
Zinc	ppm	ASTM D5185m	1640	1152	1223	1055
Sulfur	ppm	ASTM D5185m		3494	4520	4723
Visc @ 40°C	cSt	ASTM D445	57.0	54.6	54.0	54.4

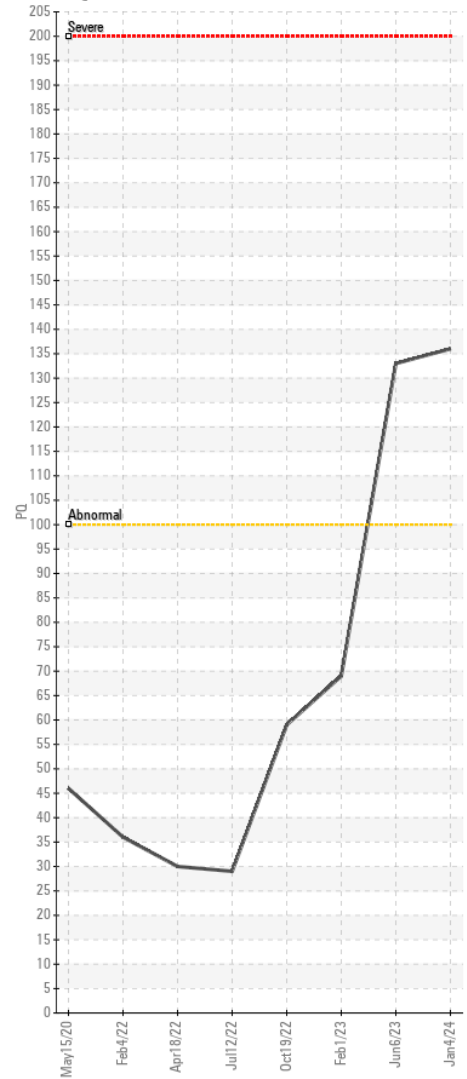
Viscosity @ 40°C



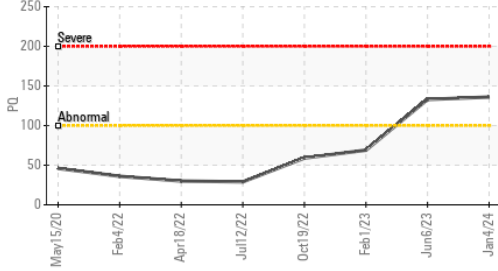
Ferrous Alloys



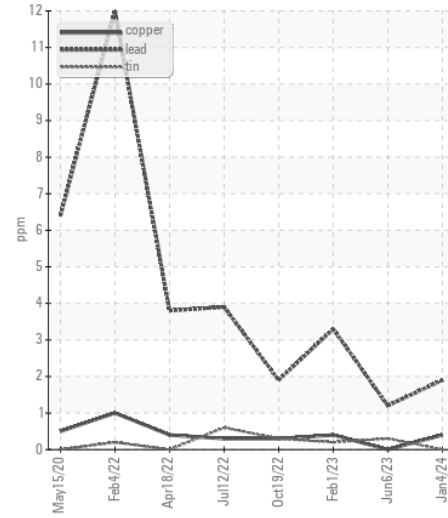
PQ



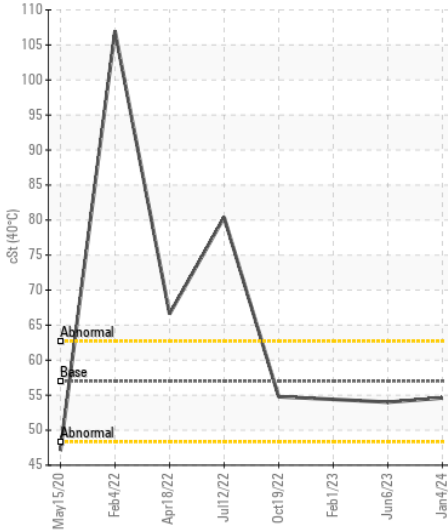
PQ



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0193585 **Received** : 10 Jan 2024
Lab Number : 06056933 **Diagnosed** : 11 Jan 2024
Unique Number : 10822882 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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