



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[KH PRICE]
 Machine Id
JOHN DEERE 544K 1DW544KZKGF675309
 Component
Front Differential
 Fluid
TDH FLUID SAE 75W80 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0193416	JR0161498	JR0128497
Sample Date		Client Info		27 Nov 2023	23 Mar 2023	19 Apr 2022
Machine Age	hrs	Client Info		4450	3947	3486
Oil Age	hrs	Client Info		500	500	500
Filter Age	hrs	Client Info		500	500	500
Oil Changed		Client Info		Not Changed	Changed	Changed
Filter Changed		Client Info		Not Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		17	5	13
Iron	ppm	ASTM D5185m	>500	40	61	<1
Chromium	ppm	ASTM D5185m	>10	<1	<1	0
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	1
Lead	ppm	ASTM D5185m	>25	44	69	0
Copper	ppm	ASTM D5185m	>100	31	37	<1
Tin	ppm	ASTM D5185m	>10	3	4	0
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.

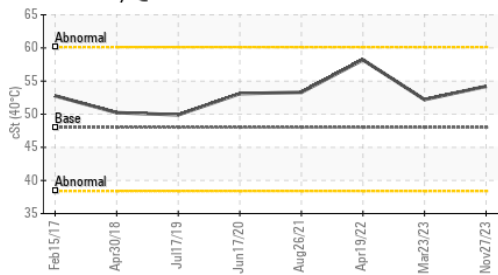
Silicon	ppm	ASTM D5185m	>75	4	5	4
Potassium	ppm	ASTM D5185m	>20	2	<1	1
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG

FLUID CONDITION

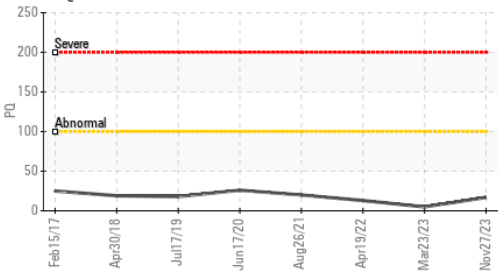
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		0	3	0
Boron	ppm	ASTM D5185m	10	3	2	2
Barium	ppm	ASTM D5185m	10	8	0	0
Molybdenum	ppm	ASTM D5185m	10	<1	<1	<1
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m	100	96	94	102
Calcium	ppm	ASTM D5185m	3500	3530	3239	3425
Phosphorus	ppm	ASTM D5185m	1150	973	940	1045
Zinc	ppm	ASTM D5185m	1150	1209	1155	1279
Sulfur	ppm	ASTM D5185m	5000	4088	3966	3099
Visc @ 40°C	cSt	ASTM D445	48	54.2	52.2	58.2

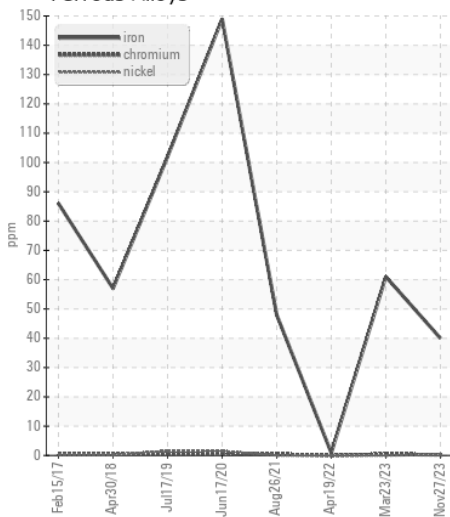
Viscosity @ 40°C



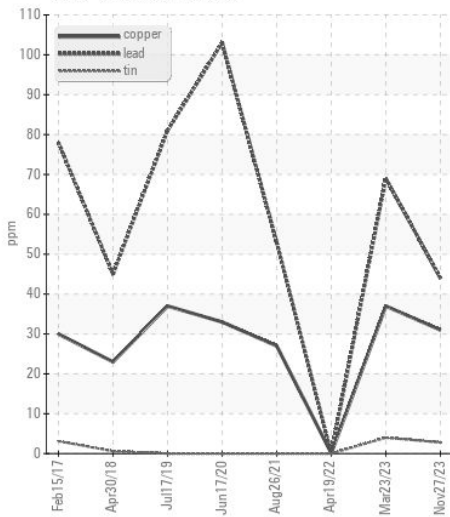
PQ



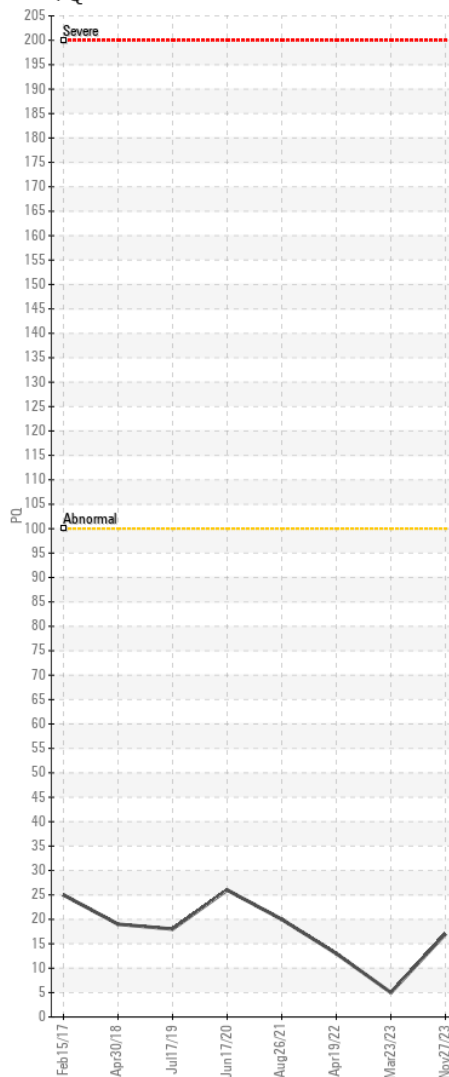
Ferrous Alloys



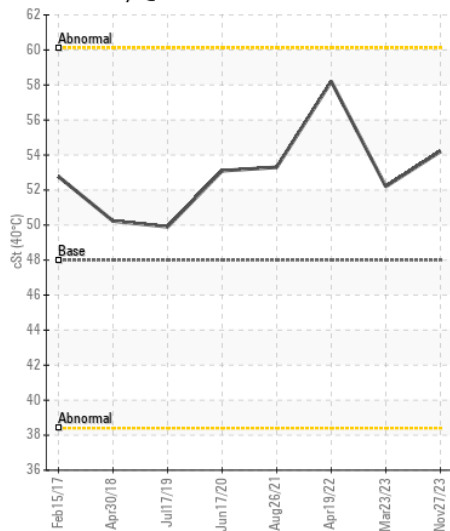
Non-ferrous Metals



PQ



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0193416 **Received** : 08 Jan 2024
Lab Number : 06054293 **Diagnosed** : 09 Jan 2024
Unique Number : 10820242 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - CHARLOTTE
 9550 STATESVILLE ROAD
 CHARLOTTE, NC
 US 28269
 Contact: CHARLOTTE SHOP
 myoung@jamesriverequipment.com
 T: (704)597-0211
 F: (704)596-6198

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)