



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[05W47493]

Machine Id

HITACHI 85USB-5 HCMDEF60J00023328

Component

Left Final Drive

Fluid

JOHN DEERE GL-5 80W90 (2 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0218041	JR0199038	JR0173043
Sample Date		Client Info		20 Jun 2024	04 Jan 2024	22 May 2023
Machine Age	hrs	Client Info		1426	1002	457
Oil Age	hrs	Client Info		1426	1002	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
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		212	502	386
Iron	ppm	ASTM D5185m	>500	549	589	297
Chromium	ppm	ASTM D5185m	>10	7	6	4
Nickel	ppm	ASTM D5185m	>10	4	1	2
Titanium	ppm	ASTM D5185m		2	<1	1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	8	4	5
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m	>50	3	2	<1
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	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.

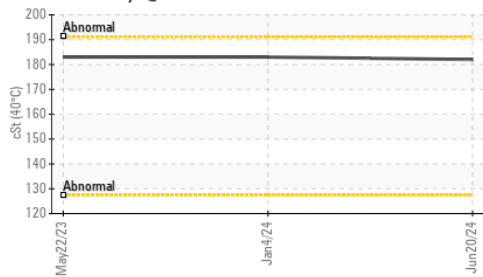
Silicon	ppm	ASTM D5185m	>75	37	27	23
Potassium	ppm	ASTM D5185m	>20	3	1	3
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	LIGHT	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

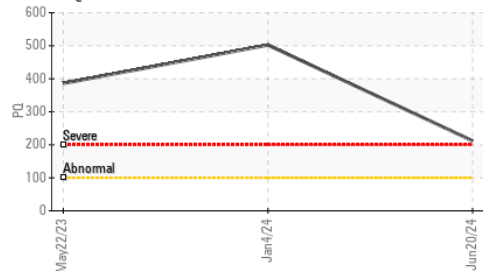
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<1	2	2
Boron	ppm	ASTM D5185m		61	63	75
Barium	ppm	ASTM D5185m		99	101	100
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		7	6	5
Magnesium	ppm	ASTM D5185m		3	0	2
Calcium	ppm	ASTM D5185m		102	30	35
Phosphorus	ppm	ASTM D5185m		503	530	535
Zinc	ppm	ASTM D5185m		124	88	60
Sulfur	ppm	ASTM D5185m		14789	16150	19438
Visc @ 40°C	cSt	ASTM D445		182	183	183

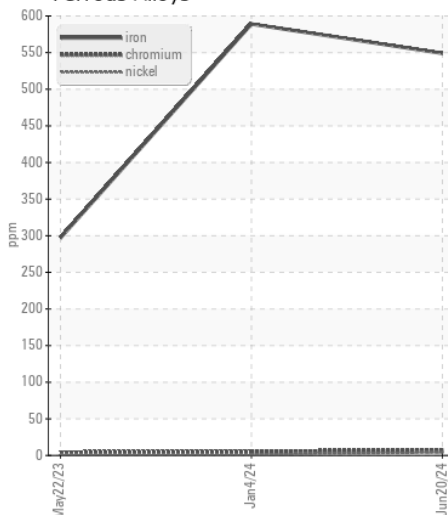
Viscosity @ 40°C



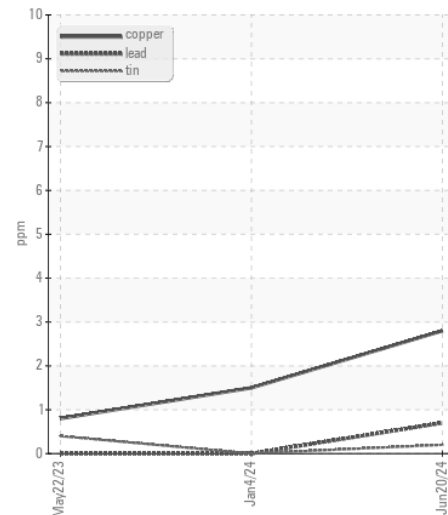
PQ



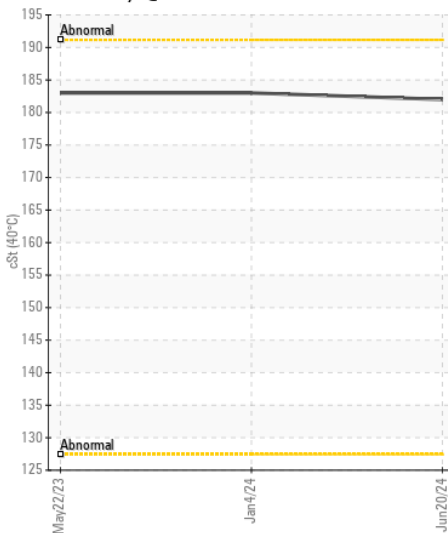
Ferrous Alloys



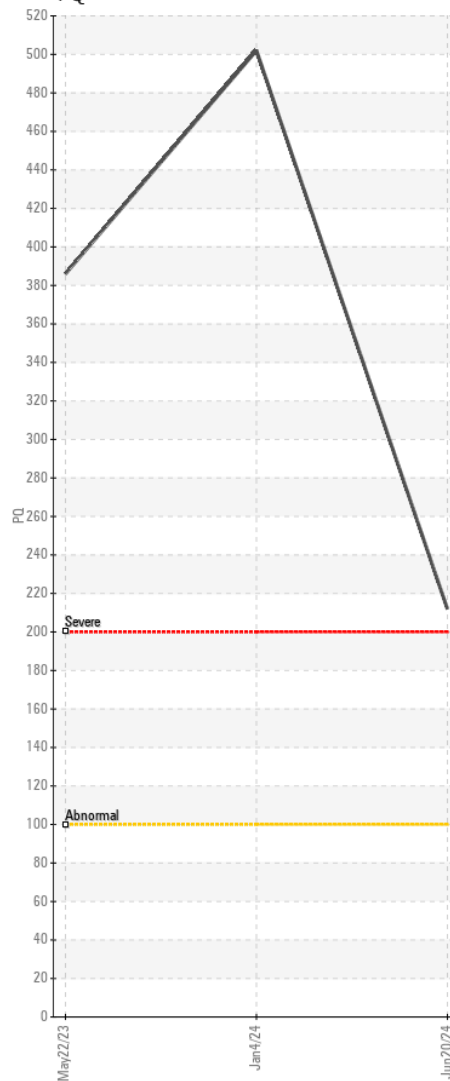
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0218041 **Received** : 24 Jun 2024
Lab Number : 06218569 **Tested** : 25 Jun 2024
Unique Number : 11096766 **Diagnosed** : 26 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

JRE - MANASSAS PARK
 9107 OWENS DRIVE
 MANASSAS PARK, VA
 US 20111

Contact: DON VEST
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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)