



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
HITACHI HCMDAT60V00200473
 Component
Right Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0217730	JR0196014	JR0168978
Sample Date		Client Info		29 May 2024	15 Dec 2023	26 May 2023
Machine Age	hrs	Client Info		3472	2985	2468
Oil Age	hrs	Client Info		2432	2462	523
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Filter Changed		Client Info		None	N/A	None
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		57	68	43
Iron	ppm	ASTM D5185m	>500	129	79	55
Chromium	ppm	ASTM D5185m	>10	2	2	1
Nickel	ppm	ASTM D5185m	>10	2	1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	6	1	<1
Lead	ppm	ASTM D5185m	>25	0	<1	0
Copper	ppm	ASTM D5185m	>50	0	<1	<1
Tin	ppm	ASTM D5185m	>10	<1	<1	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 fluid.

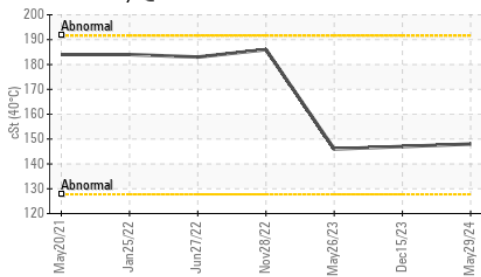
Silicon	ppm	ASTM D5185m	>75	36	17	14
Potassium	ppm	ASTM D5185m	>20	4	2	2
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	MODER	LIGHT	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

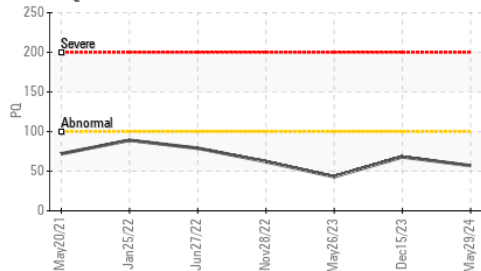
The condition of the fluid is suitable for further service.

Sodium	ppm	ASTM D5185m		1	0	1
Boron	ppm	ASTM D5185m		170	167	172
Barium	ppm	ASTM D5185m		<1	3	0
Molybdenum	ppm	ASTM D5185m		3	<1	0
Manganese	ppm	ASTM D5185m		2	2	1
Magnesium	ppm	ASTM D5185m		8	3	0
Calcium	ppm	ASTM D5185m		82	45	31
Phosphorus	ppm	ASTM D5185m		957	907	863
Zinc	ppm	ASTM D5185m		42	21	4
Sulfur	ppm	ASTM D5185m		20590	20261	21720
Visc @ 40°C	cSt	ASTM D445		148	147	146

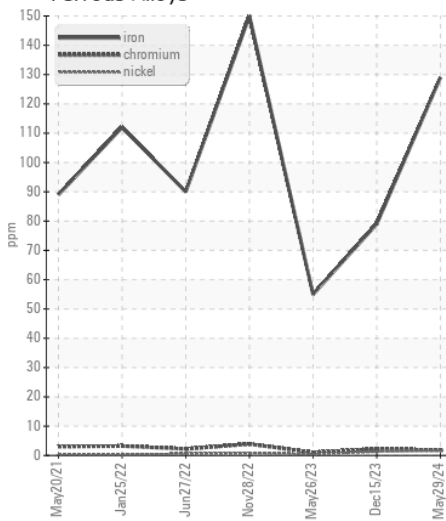
Viscosity @ 40°C



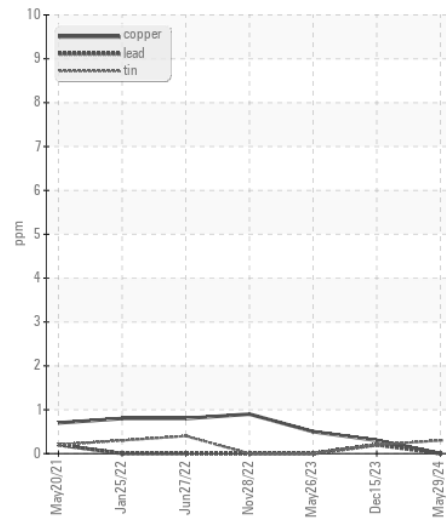
PQ



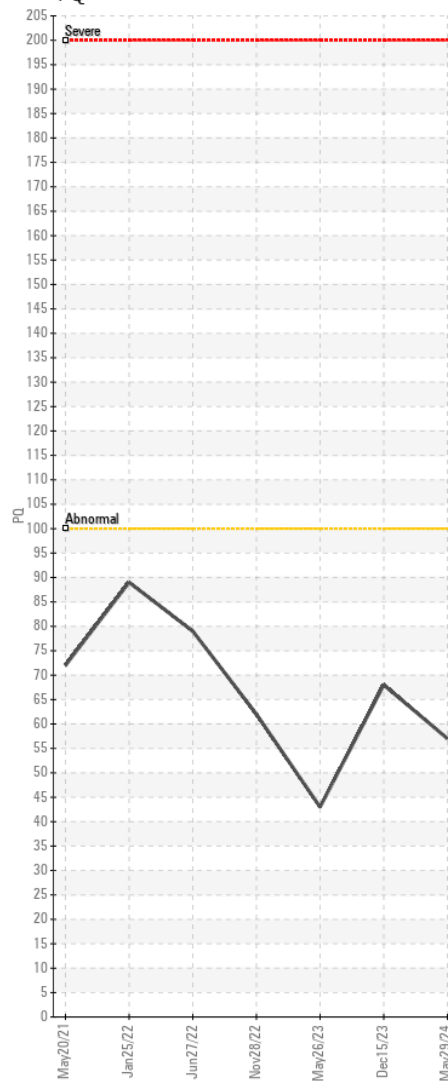
Ferrous Alloys



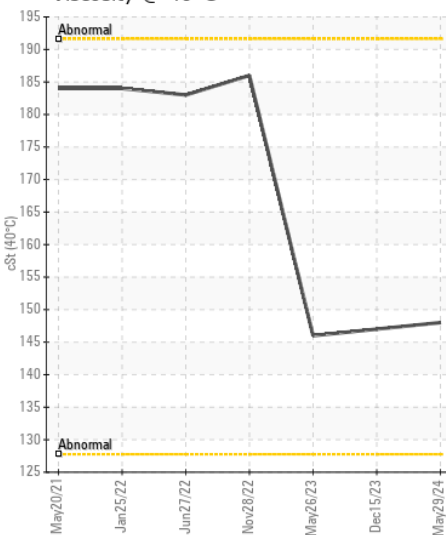
Non-ferrous Metals



PQ



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : JR0217730 Received : 31 May 2024
 Lab Number : 06196940 Tested : 03 Jun 2024
 Unique Number : 11059063 Diagnosed : 03 Jun 2024 - Sean Felton
 Test Package : CONST (Additional Tests: PQ)

CWS-STRITTMATTER
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 MANASSAS PARK, VA
 US 20111

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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)