



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 75G E197
 Component
Left Final Drive
 Fluid
HITACHI HYDRAULIC SUPER EX 46HN (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0198990	JR0144804	JR0066360
Sample Date		Client Info		10 Jan 2024	24 Oct 2023	21 Sep 2021
Machine Age	hrs	Client Info		6674	0	5314
Oil Age	hrs	Client Info		259	1101	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	214	97	134
Iron	ppm	ASTM D5185m	>750	339	481	878
Chromium	ppm	ASTM D5185m	>9	4	6	10
Nickel	ppm	ASTM D5185m	>10	<1	3	3
Titanium	ppm	ASTM D5185m		<1	<1	2
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	16	13	22
Lead	ppm	ASTM D5185m	>15	0	0	0
Copper	ppm	ASTM D5185m	>40	1	<1	2
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
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.

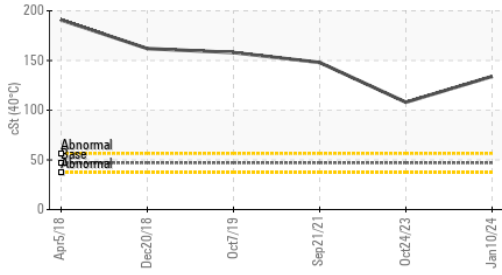
Silicon	ppm	ASTM D5185m	>75	37	44	58
Potassium	ppm	ASTM D5185m	>20	2	0	3
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	LIGHT	LIGHT	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	NEG

FLUID CONDITION

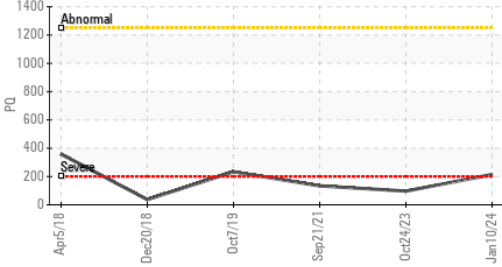
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	2	1	2
Boron	ppm	ASTM D5185m		55	285	144
Barium	ppm	ASTM D5185m		<1	3	5
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		3	4	7
Magnesium	ppm	ASTM D5185m		2	0	2
Calcium	ppm	ASTM D5185m		12	8	9
Phosphorus	ppm	ASTM D5185m	827	952	1366	815
Zinc	ppm	ASTM D5185m	0	5	25	32
Sulfur	ppm	ASTM D5185m	13	22763	21488	28647
Visc @ 40°C	cSt	ASTM D445	47	134	108	148

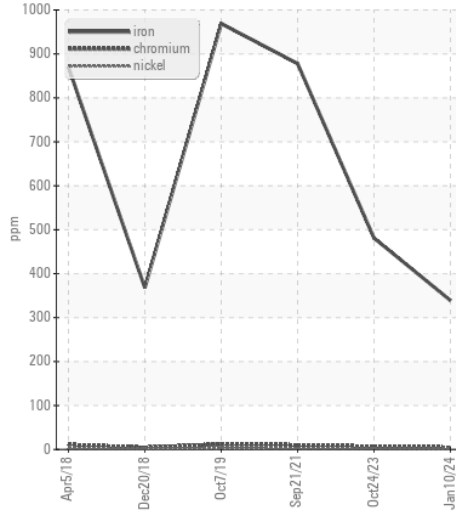
Viscosity @ 40°C



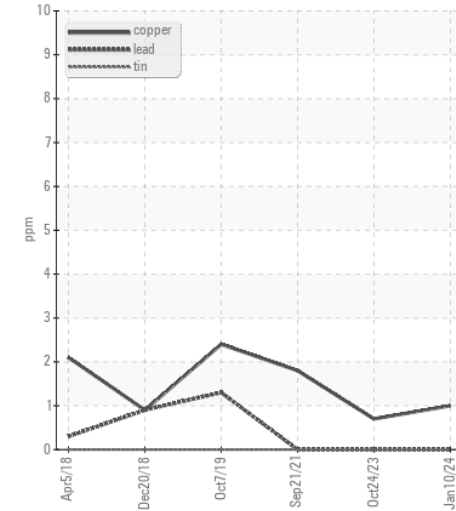
PQ



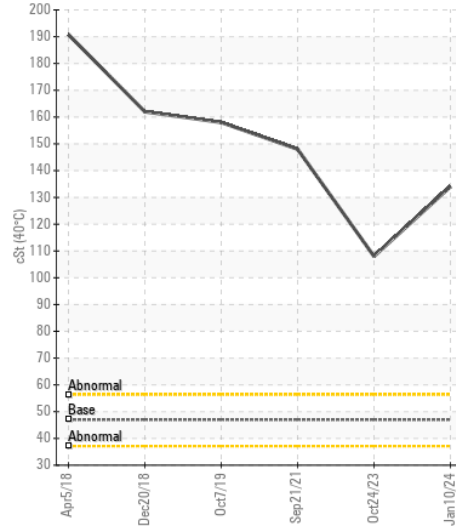
Ferrous Alloys



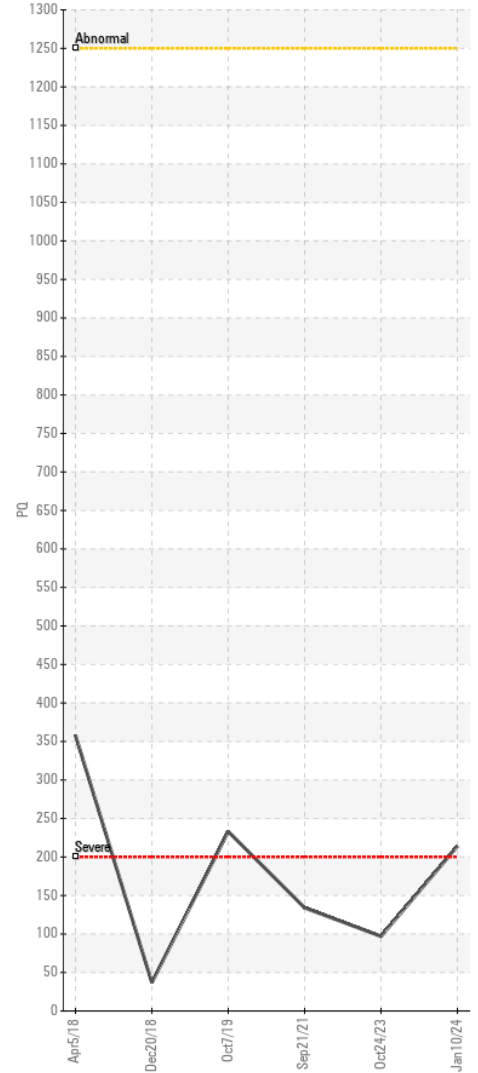
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0198990 **Received** : 17 Jan 2024
Lab Number : 06063039 **Diagnosed** : 18 Jan 2024
Unique Number : 10834421 **Diagnostician** : Sean Felton
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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