



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
Store 4 - Fairmont
Machine Id
JOHN DEERE 350GL 1FF350GXJKF814116
Component
Pump Drive
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (1 QTS)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0046587	LEC0037099	LEC0032073
Sample Date		Client Info		29 Dec 2023	11 Jan 2023	03 Aug 2022
Machine Age	hrs	Client Info		1460	923	457
Oil Age	hrs	Client Info		537	923	457
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		None	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		34	22	29
Iron	ppm	ASTM D5185m	>151	90	84	61
Chromium	ppm	ASTM D5185m	>11	3	3	2
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>21	3	1	2
Lead	ppm	ASTM D5185m	>51	0	0	<1
Copper	ppm	ASTM D5185m	>51	1	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	MODER	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

Elemental level of silicon (Si) above normal indicating ingress of seal material.

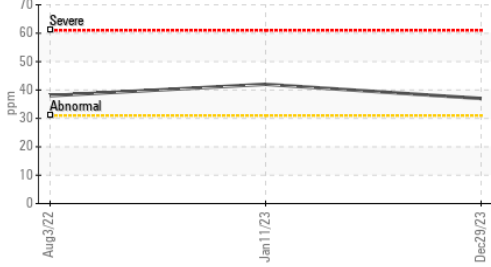
Silicon	ppm	ASTM D5185m	>31	▲ 37	▲ 42	▲ 38
Potassium	ppm	ASTM D5185m	>20	0	3	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

FLUID CONDITION

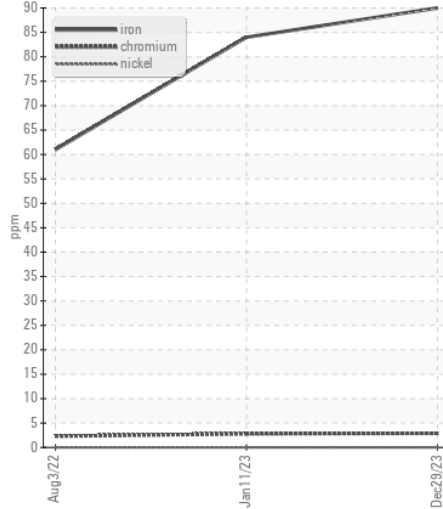
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	3	<1	3
Boron	ppm	ASTM D5185m		108	56	67
Barium	ppm	ASTM D5185m		7	0	6
Molybdenum	ppm	ASTM D5185m		135	106	102
Manganese	ppm	ASTM D5185m		6	6	5
Magnesium	ppm	ASTM D5185m		192	14	16
Calcium	ppm	ASTM D5185m		3309	4231	4122
Phosphorus	ppm	ASTM D5185m		1151	1201	1153
Zinc	ppm	ASTM D5185m		1255	1334	1286
Sulfur	ppm	ASTM D5185m		6294	7485	8809
Visc @ 40°C	cSt	ASTM D445	117	64.2	63.4	65.4

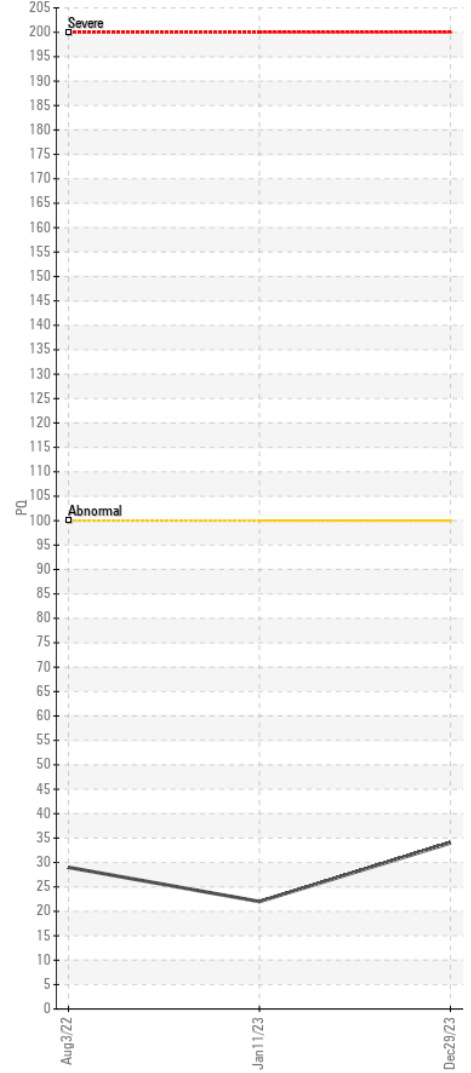
▲ Silicon (ppm)



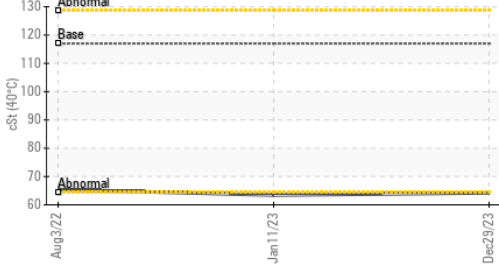
Ferrous Alloys



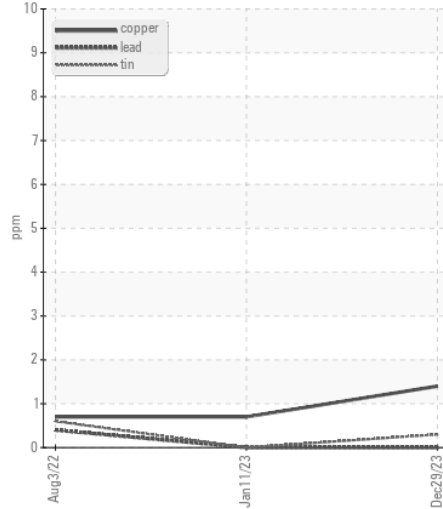
PQ



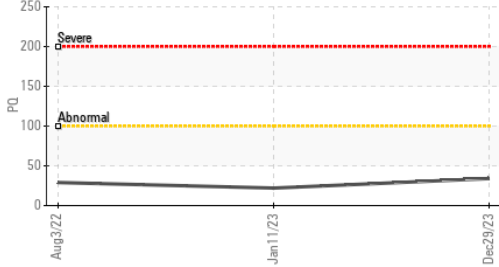
Viscosity @ 40°C



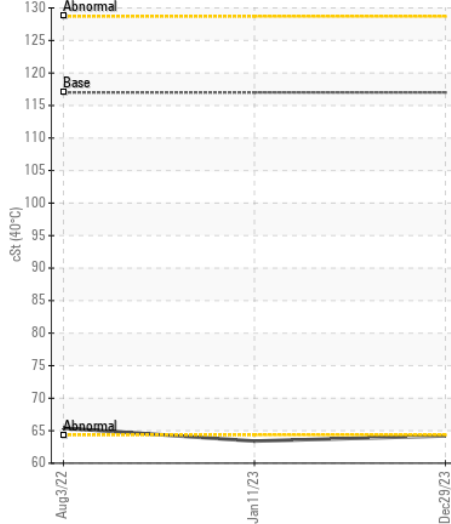
Non-ferrous Metals



PQ



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : LEC0046587 Recieved : 12 Jan 2024
 Lab Number : 06059514 Diagnosed : 16 Jan 2024
 Unique Number : 10830896 Diagnostician : Jonathan Hester
 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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