



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[W51019]

Machine Id
SAKAI 1SW53-30147

Component
Rear Vibratory Drum Gearbox

Fluid
JOHN DEERE GL-5 80W90 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. (Customer Sample Comment: W51019)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0222562	JR0197921	JR0167658
Sample Date		Client Info		28 Jun 2024	18 Dec 2023	17 May 2023
Machine Age	hrs	Client Info		5082	4714	4006
Oil Age	hrs	Client Info		4374	708	4006
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Not Changed	Changed
Filter Changed		Client Info		Not Changed	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

Gear wear is indicated.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		218	433	12
Iron	ppm	ASTM D5185m	>200	▲ 1192	▲ 1256	<1
Chromium	ppm	ASTM D5185m	>10	▲ 11	▲ 11	0
Nickel	ppm	ASTM D5185m	>10	1	<1	<1
Titanium	ppm	ASTM D5185m		14	25	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m		● 40	● 20	0
Lead	ppm	ASTM D5185m		<1	0	0
Copper	ppm	ASTM D5185m		2	2	0
Tin	ppm	ASTM D5185m		0	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

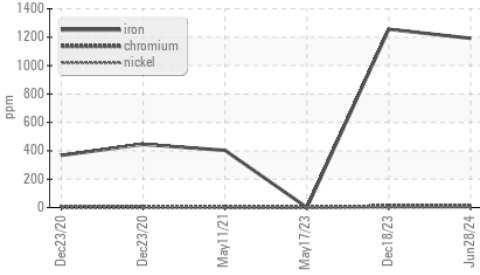
Silicon	ppm	ASTM D5185m		▲ 86	▲ 50	0
Potassium	ppm	ASTM D5185m	>20	13	8	<1
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

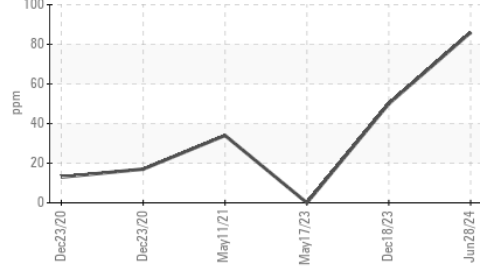
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		8	5	<1
Boron	ppm	ASTM D5185m		55	69	165
Barium	ppm	ASTM D5185m		4	0	0
Molybdenum	ppm	ASTM D5185m		2	2	<1
Manganese	ppm	ASTM D5185m		19	24	<1
Magnesium	ppm	ASTM D5185m		11	9	0
Calcium	ppm	ASTM D5185m		178	129	<1
Phosphorus	ppm	ASTM D5185m		1239	1424	959
Zinc	ppm	ASTM D5185m		280	110	0
Sulfur	ppm	ASTM D5185m		17769	25505	23907
Visc @ 40°C	cSt	ASTM D445		123	126	145.9

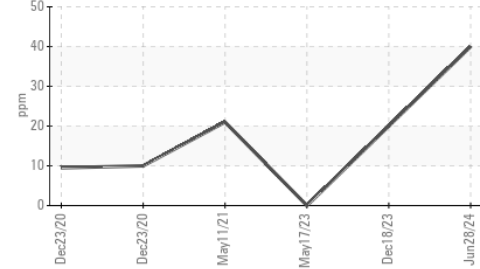
▲ Ferrous Alloys



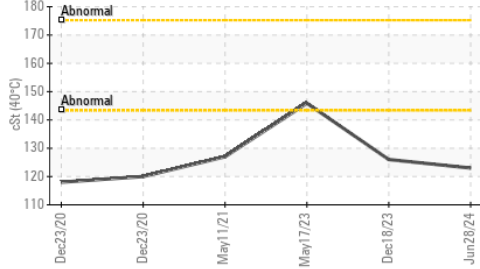
▲ Silicon (ppm)



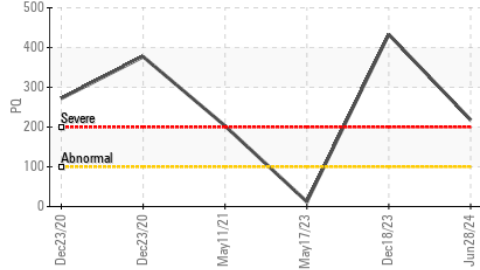
● Aluminum (ppm)



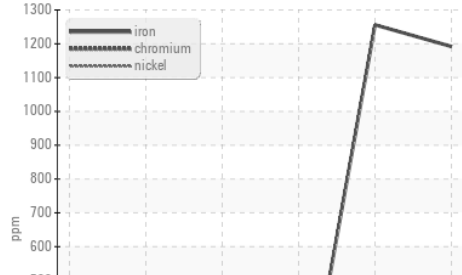
Viscosity @ 40°C



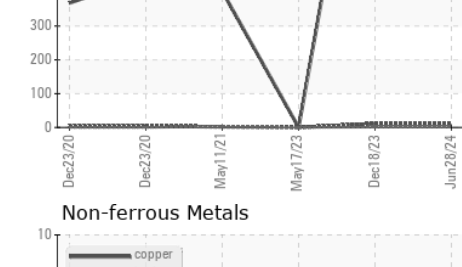
PQ



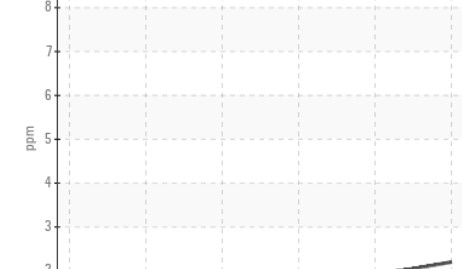
▲ Ferrous Alloys



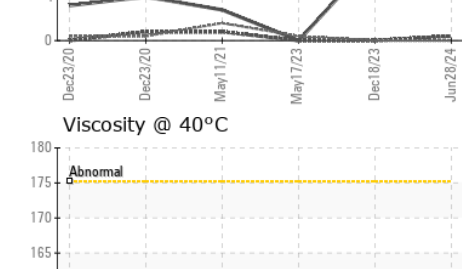
Non-ferrous Metals



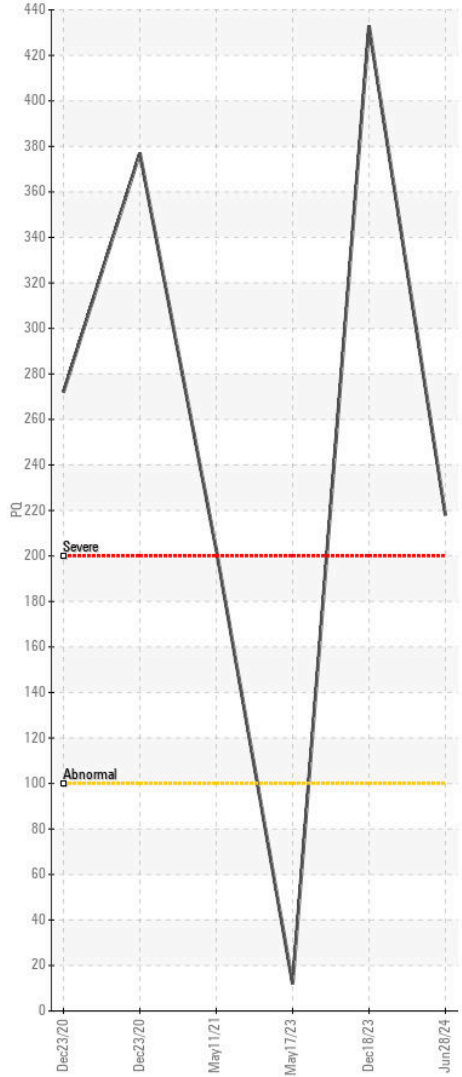
Viscosity @ 40°C



PQ



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0222562
Lab Number : 06225382
Unique Number : 11103579
Test Package : CONST (Additional Tests: PQ)

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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)