



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Store 5 - Cross Lanes

Machine Id
JOHN DEERE SS-05

Component
Hydraulic System

Fluid
{not provided} (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC06189106	LEC0046426	LEC0039485
Sample Date		Client Info		22 May 2024	19 Mar 2024	28 Jun 2023
Machine Age	hrs	Client Info		0	2126	1842
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

The iron level is abnormal. The chromium level is abnormal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	▲ 39	▲ 39	▲ 33
Chromium	ppm	ASTM D5185m	>10	▲ 15	▲ 15	▲ 12
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>10	2	2	<1
Lead	ppm	ASTM D5185m	>10	2	1	1
Copper	ppm	ASTM D5185m	>75	16	18	16
Tin	ppm	ASTM D5185m	>10	0	<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

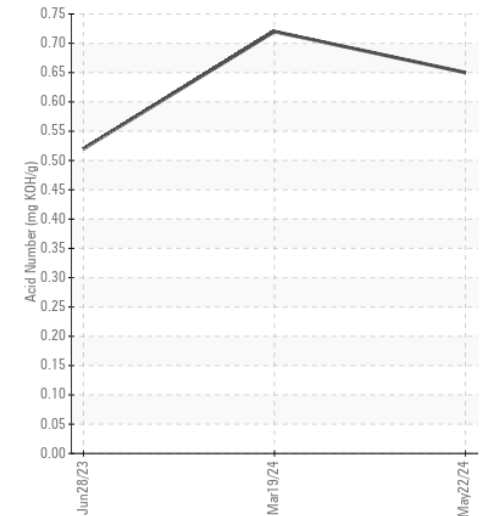
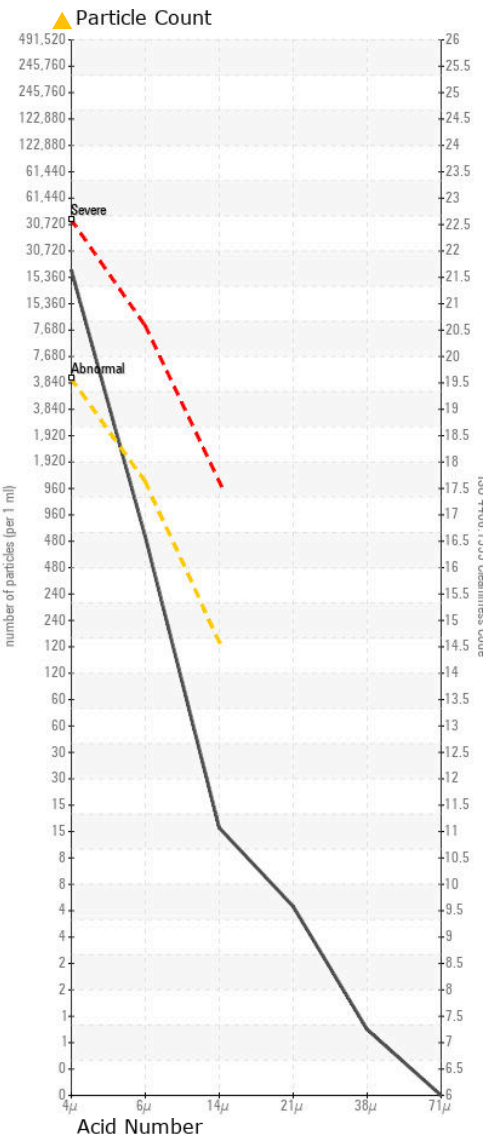
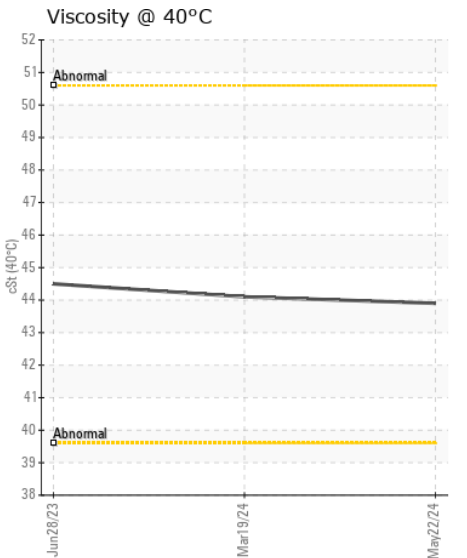
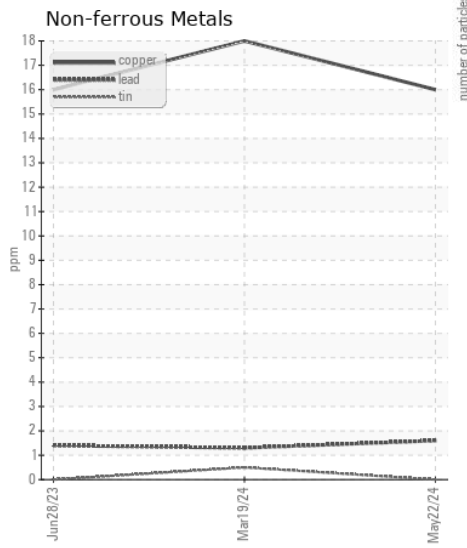
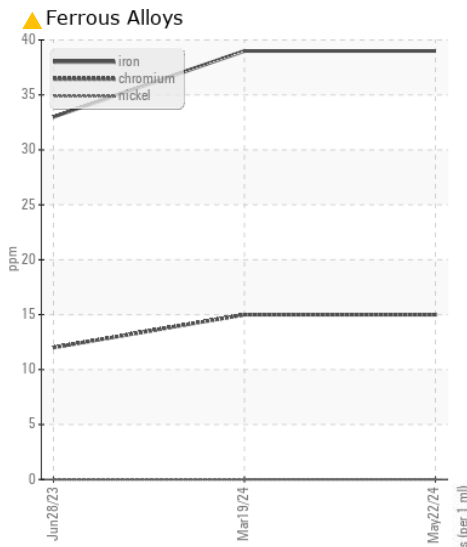
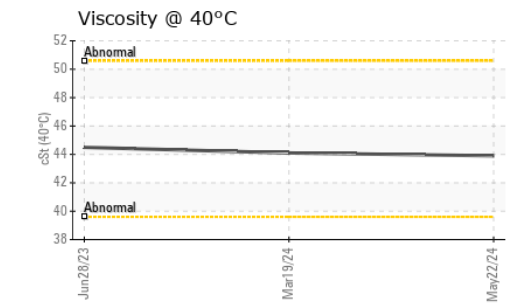
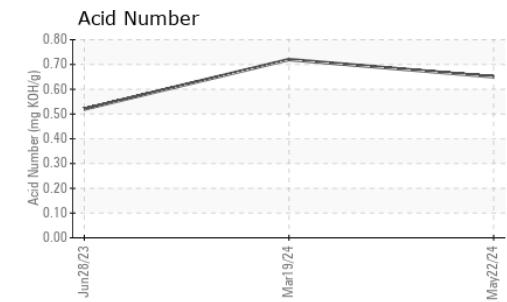
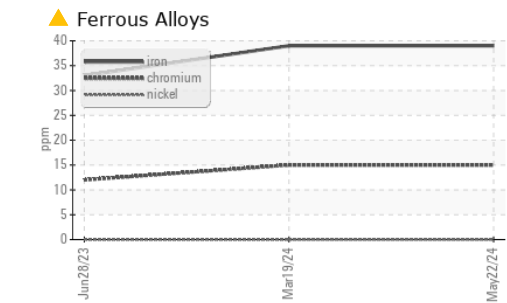
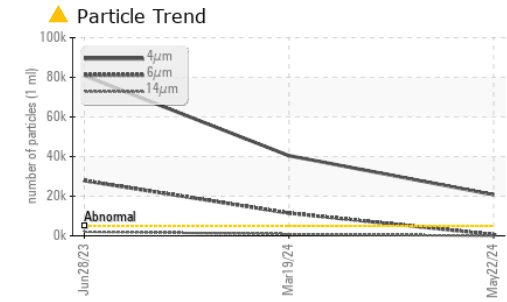
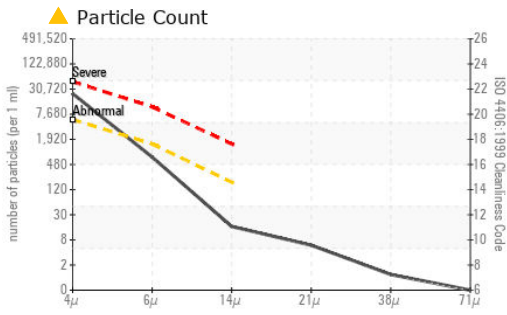
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	5	6	5
Potassium	ppm	ASTM D5185m	>20	3	4	3
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 20742	▲ 40451	▲ 80817
Particles >6µm		ASTM D7647	>1300	633	▲ 11454	▲ 27868
Particles >14µm		ASTM D7647	>160	14	▲ 853	▲ 2060
Particles >21µm		ASTM D7647	>40	5	▲ 251	▲ 428
Particles >38µm		ASTM D7647	>10	1	6	▲ 13
Particles >71µm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 22/16/11	▲ 23/21/17	▲ 24/22/18
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		3	<1	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		<1	0	7
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		11	16	12
Calcium	ppm	ASTM D5185m		114	149	91
Phosphorus	ppm	ASTM D5185m		638	534	530
Zinc	ppm	ASTM D5185m		758	686	654
Sulfur	ppm	ASTM D5185m		1921	1513	1538
Acid Number (AN)	mg KOH/g	ASTM D8045		0.65	0.72	0.52
Visc @ 40°C	cSt	ASTM D445		43.9	44.1	44.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : LEC06189106 Received : 23 May 2024
 Lab Number : 06189106 Tested : 24 May 2024
 Unique Number : 11045858 Diagnosed : 28 May 2024 - Don Baldrige
 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)

APEX PIPELINE

P.O. BOX 580

NITRO, WV

US 25143

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