



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[ANDREW SPOTTER]
 Machine Id
JOHN DEERE 5120M 59002525 (S/N 1PY5120MHRB000650)
 Component
Hydraulic System
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0196773	---	---
Sample Date		Client Info		15 Jul 2024	---	---
Machine Age	hrs	Client Info		105	---	---
Oil Age	hrs	Client Info		105	---	---
Filter Age	hrs	Client Info		105	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				ABNORMAL	---	---

WEAR

The iron level is abnormal. Moderate concentration of visible metal present. All other metal levels are typical for a new component breaking in.

PQ		ASTM D8184		33	---	---
Iron	ppm	ASTM D5185m	>20	▲ 48	---	---
Chromium	ppm	ASTM D5185m	>10	<1	---	---
Nickel	ppm	ASTM D5185m	>10	0	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>10	2	---	---
Lead	ppm	ASTM D5185m	>10	<1	---	---
Copper	ppm	ASTM D5185m	>75	17	---	---
Tin	ppm	ASTM D5185m	>10	<1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	▲ MODER	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

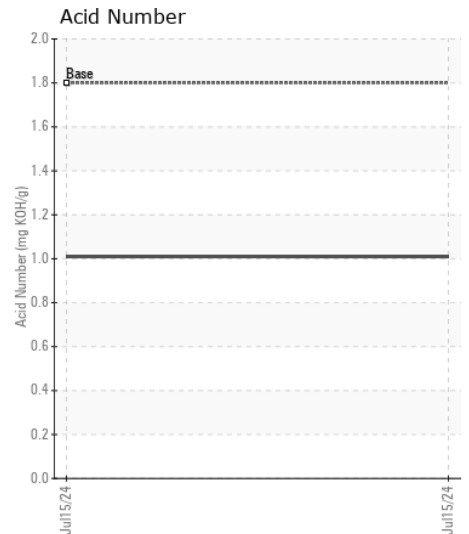
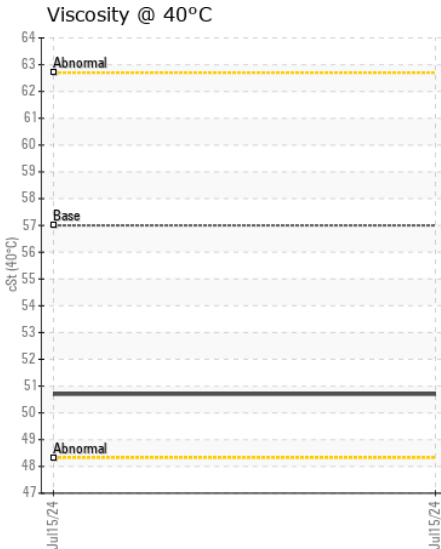
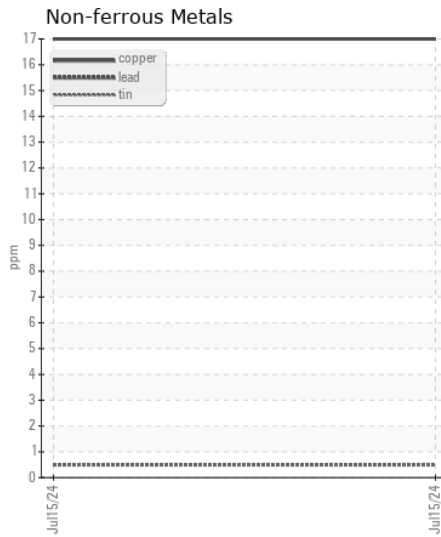
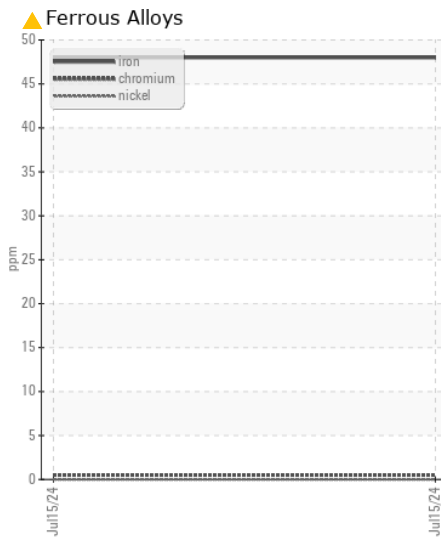
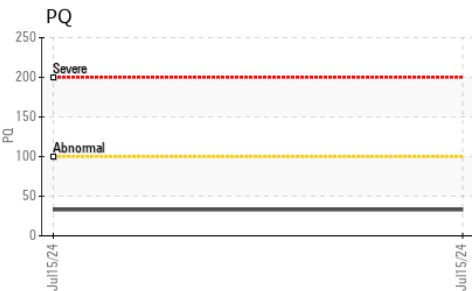
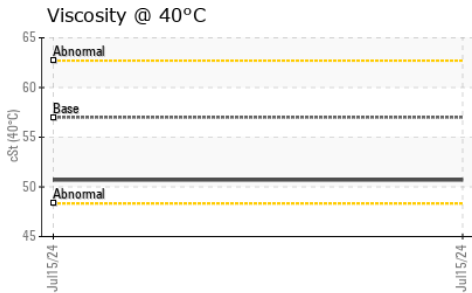
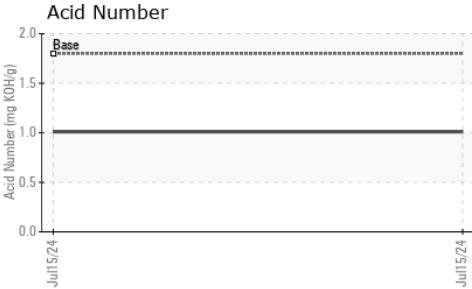
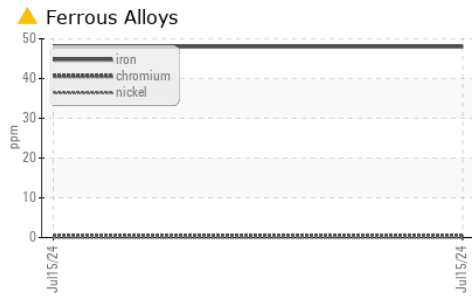
No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185m	>20	12	---	---
Potassium	ppm	ASTM D5185m	>20	2	---	---
Water		WC Method	>0.1	NEG	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	LIGHT	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---	---

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		8	---	---
Boron	ppm	ASTM D5185m	6	81	---	---
Barium	ppm	ASTM D5185m	0	<1	---	---
Molybdenum	ppm	ASTM D5185m	0	0	---	---
Manganese	ppm	ASTM D5185m		5	---	---
Magnesium	ppm	ASTM D5185m	145	35	---	---
Calcium	ppm	ASTM D5185m	3570	3283	---	---
Phosphorus	ppm	ASTM D5185m	1290	1060	---	---
Zinc	ppm	ASTM D5185m	1640	1292	---	---
Sulfur	ppm	ASTM D5185m		8332	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	1.01	---	---
Visc @ 40°C	cSt	ASTM D445	57.0	50.7	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0196773
Lab Number : 06239050
Unique Number : 11127884
Test Package : MOBCE (Additional Tests: PQ)

Received : 17 Jul 2024
Tested : 18 Jul 2024
Diagnosed : 18 Jul 2024 - Don Baldrige

JRE - EDINBURG
 601 NORTH MAIN ST
 WOODSTOCK, VA
 US 22664

Contact: MIKE SECHLER
 MSECHLER@JAMESRIVEREQUIPMENT.COM

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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F: