



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
BLACKBURN LOGGING [A35658]
 Machine Id
JOHN DEERE 643L II 1DW643LBKPL717978
 Component
Tank Hydraulic System
 Fluid
JOHN DEERE HYDRAU (30 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: A35658)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WE0007627	---	---
Sample Date		Client Info		19 Jun 2024	---	---
Machine Age	hrs	Client Info		535	---	---
Oil Age	hrs	Client Info		535	---	---
Filter Age	hrs	Client Info		535	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		None	---	---
Sample Status				ATTENTION	---	---

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		16	---	---
Iron	ppm	ASTM D5185m	>20	6	---	---
Chromium	ppm	ASTM D5185m	>10	<1	---	---
Nickel	ppm	ASTM D5185m	>10	<1	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		<1	---	---
Aluminum	ppm	ASTM D5185m	>10	3	---	---
Lead	ppm	ASTM D5185m	>10	<1	---	---
Copper	ppm	ASTM D5185m	>75	2	---	---
Tin	ppm	ASTM D5185m	>10	<1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

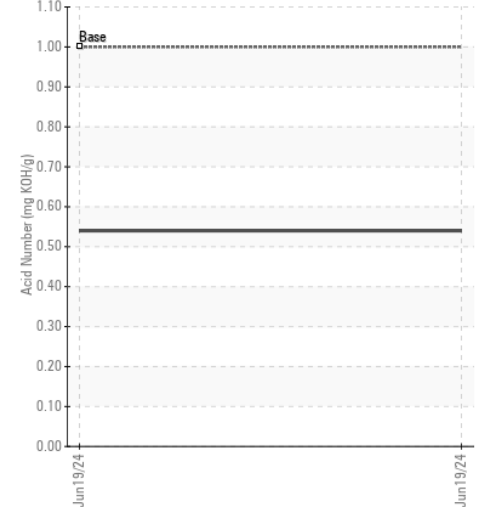
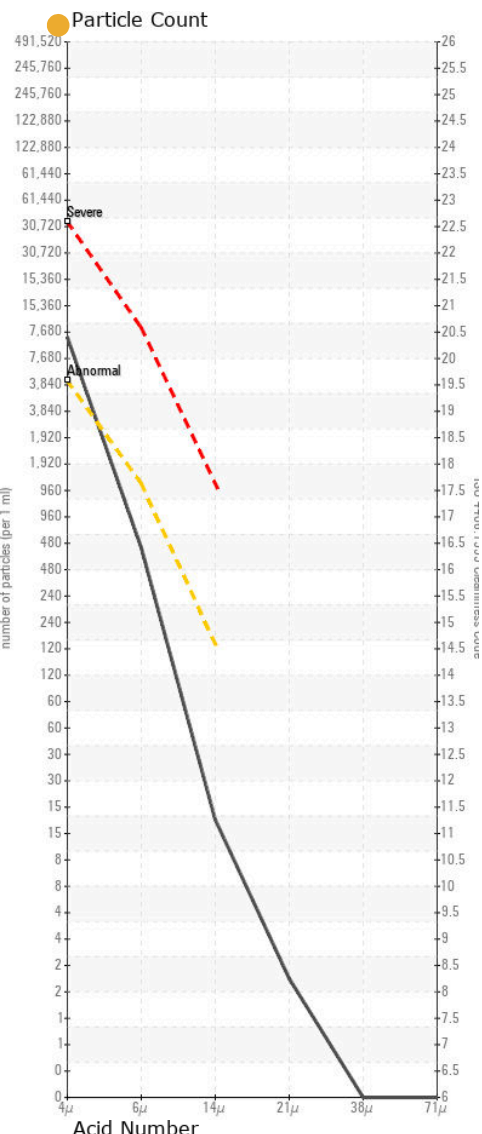
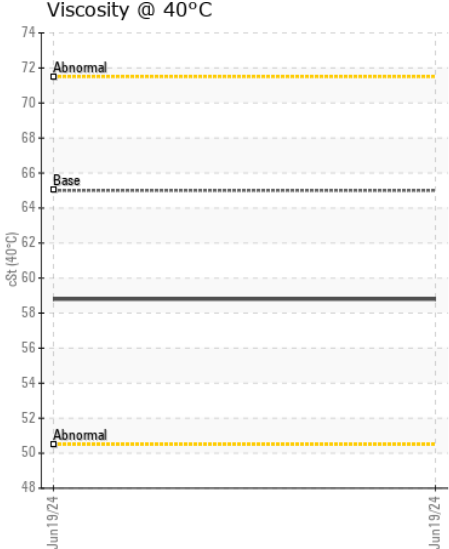
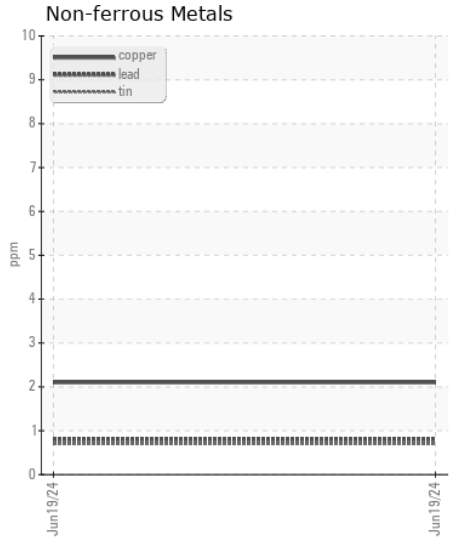
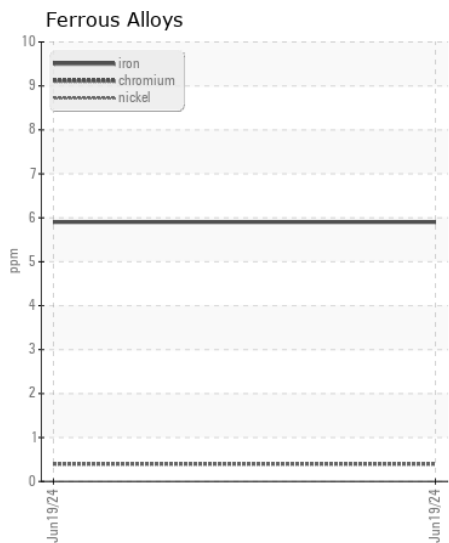
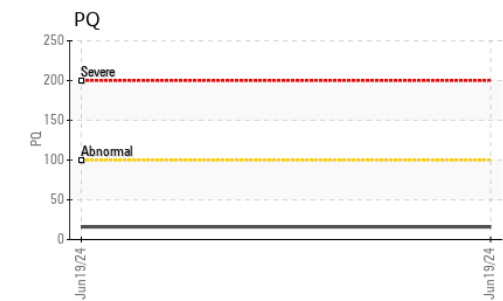
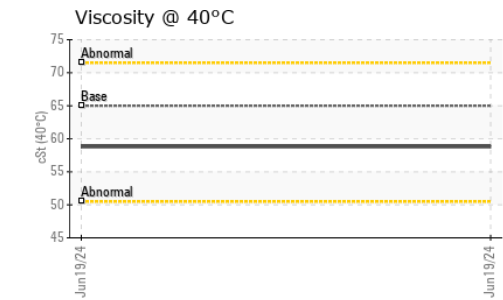
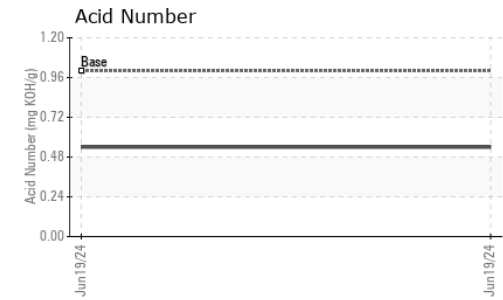
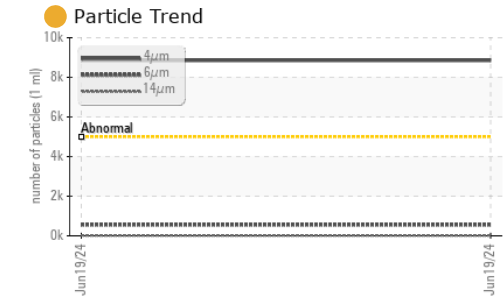
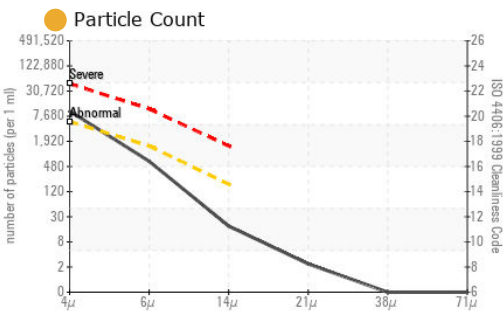
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	6	---	---
Potassium	ppm	ASTM D5185m	>20	5	---	---
Water		WC Method	>0.1	NEG	---	---
Particles >4µm		ASTM D7647	>5000	8853	---	---
Particles >6µm		ASTM D7647	>1300	562	---	---
Particles >14µm		ASTM D7647	>160	16	---	---
Particles >21µm		ASTM D7647	>40	2	---	---
Particles >38µm		ASTM D7647	>10	0	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/16/11	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
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 suitable for further service.

Sodium	ppm	ASTM D5185m		4	---	---
Boron	ppm	ASTM D5185m		22	---	---
Barium	ppm	ASTM D5185m		2	---	---
Molybdenum	ppm	ASTM D5185m		17	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		50	---	---
Calcium	ppm	ASTM D5185m	87	516	---	---
Phosphorus	ppm	ASTM D5185m	727	514	---	---
Zinc	ppm	ASTM D5185m	900	556	---	---
Sulfur	ppm	ASTM D5185m	1500	2010	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.54	---	---
Visc @ 40°C	cSt	ASTM D445	65	58.8	---	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WE0007627 **Received** : 21 Jun 2024
Lab Number : 06216780 **Tested** : 24 Jun 2024
Unique Number : 11089644 **Diagnosed** : 24 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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 25135 ONE AVIATION WAY SW
 MADISON, AL
 US 35756
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 T:
 F:

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)