



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 470G 1FF470GXLEE471338

Component
Hydraulic System

Fluid
ENVIRONMENTAL OIL ISO 46 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) ENVIRONMENTAL OIL ISO 46. Please confirm.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0213142	JR0194697	JR0186817
Sample Date		Client Info		17 Jun 2024	05 Dec 2023	26 Sep 2023
Machine Age	hrs	Client Info		7308	6668	6259
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	17	15	12
Iron	ppm	ASTM D5185m	>32	2	0	<1
Chromium	ppm	ASTM D5185m	>9	<1	0	0
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>9	2	0	0
Lead	ppm	ASTM D5185m	>28	<1	0	0
Copper	ppm	ASTM D5185m	>50	<1	0	<1
Tin	ppm	ASTM D5185m	>5	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

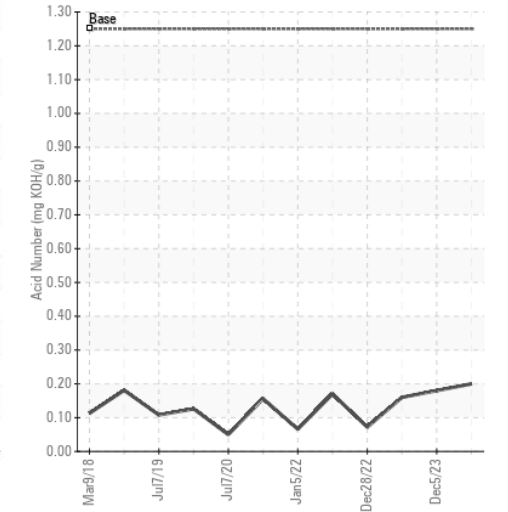
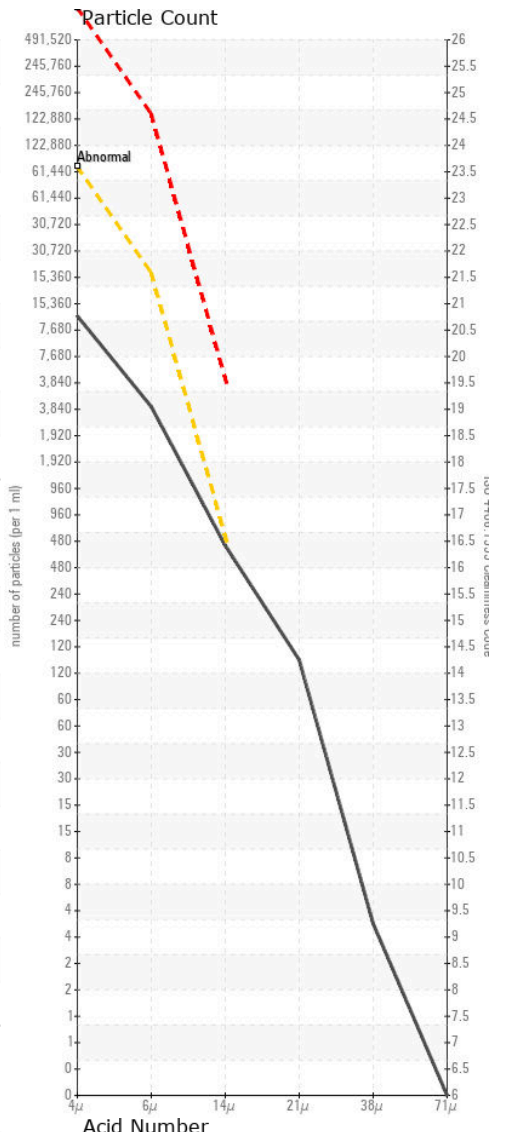
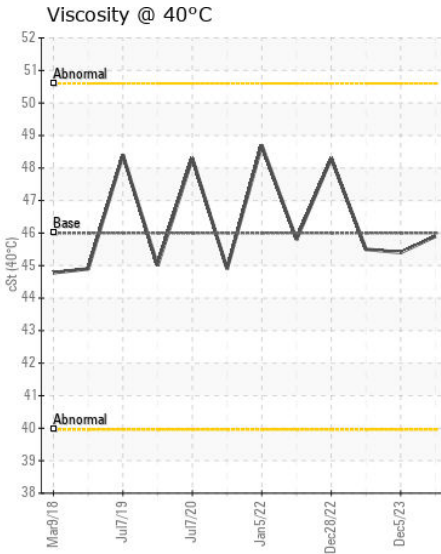
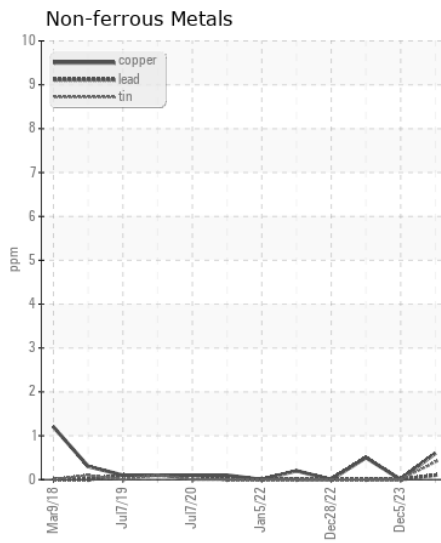
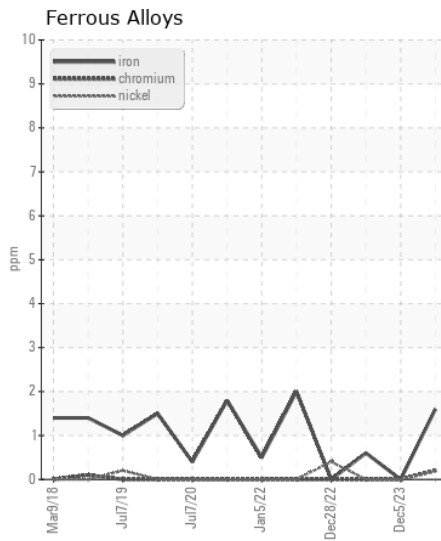
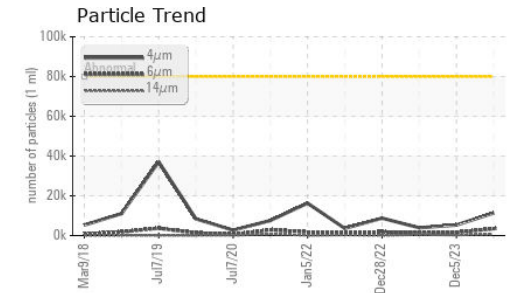
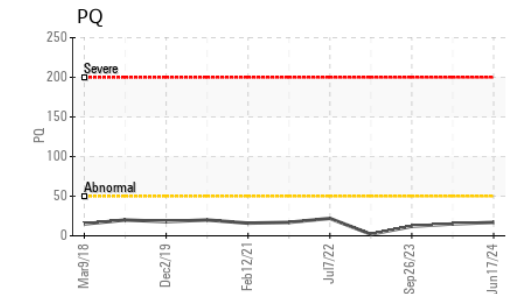
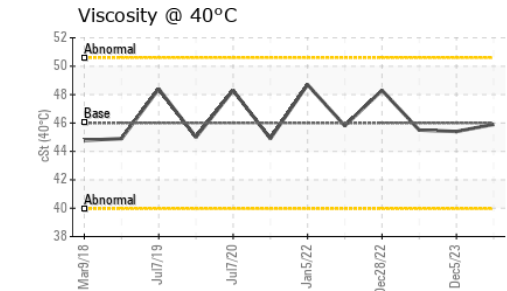
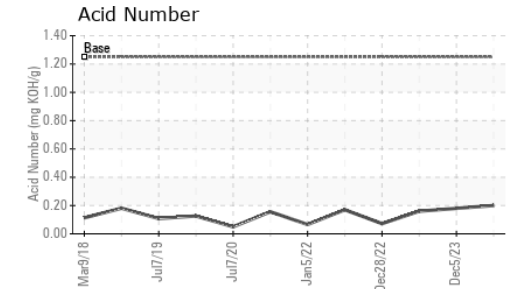
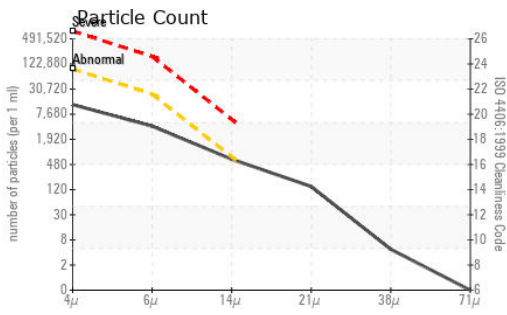
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>11	1	<1	<1
Potassium	ppm	ASTM D5185m	>20	1	0	0
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	11356	5297	3931
Particles >6µm		ASTM D7647	>20000	3466	1619	1395
Particles >14µm		ASTM D7647	>640	564	193	354
Particles >21µm		ASTM D7647	>160	126	56	106
Particles >38µm		ASTM D7647	>40	4	4	2
Particles >71µm		ASTM D7647	>10	0	1	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	21/19/16	20/18/15	19/18/16
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	>0.075	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	>21	0	<1	2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	<1	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	5	<1	0	0
Calcium	ppm	ASTM D5185m	15	0	0	3
Phosphorus	ppm	ASTM D5185m	1100	420	432	423
Zinc	ppm	ASTM D5185m	10	6	0	1
Sulfur	ppm	ASTM D5185m	1400	975	981	999
Acid Number (AN)	mg KOH/g	ASTM D8045	1.25	0.20	0.18	0.16
Visc @ 40°C	cSt	ASTM D445	46	45.9	45.4	45.5



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0213142 **Received** : 18 Jun 2024
Lab Number : 06213358 **Tested** : 19 Jun 2024
Unique Number : 11086222 **Diagnosed** : 19 Jun 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

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 F: (336)665-9556

Certificate L2367
 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)