



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[16W16317]

Machine Id

HITACHI 1FFDC571ELF340844

Component

Pump Drive

Fluid

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (1 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: 16W16317)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0207193	JR0196347	JR0173318
Sample Date		Client Info		24 May 2024	15 Jan 2024	31 May 2023
Machine Age	hrs	Client Info		3997	3555	2653
Oil Age	hrs	Client Info		997	1000	2653
Filter Age	hrs	Client Info		0	1000	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		N/A	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		27	17	18
Iron	ppm	ASTM D5185m	>500	67	144	105
Chromium	ppm	ASTM D5185m	>15	1	1	2
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>20	4	4	<1
Lead	ppm	ASTM D5185m		0	0	<1
Copper	ppm	ASTM D5185m	>35	<1	<1	2
Tin	ppm	ASTM D5185m	>4	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

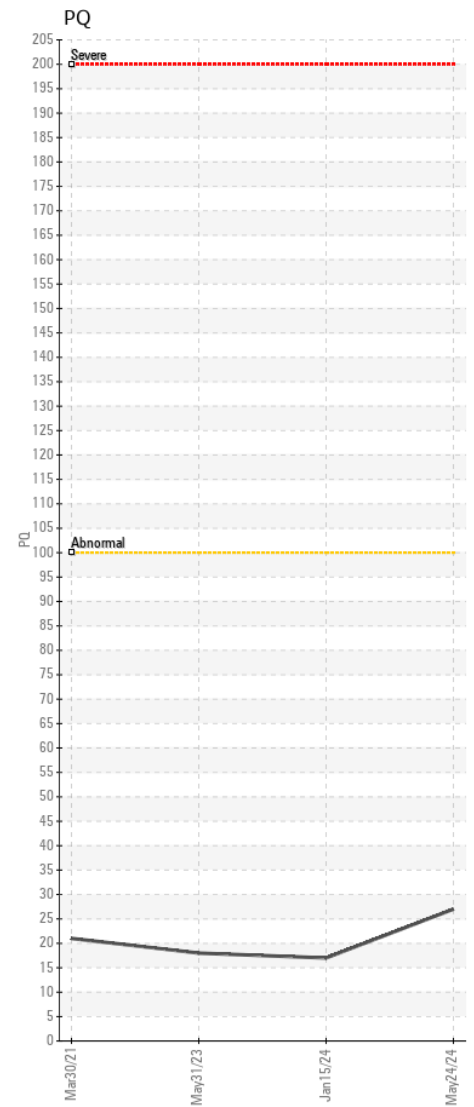
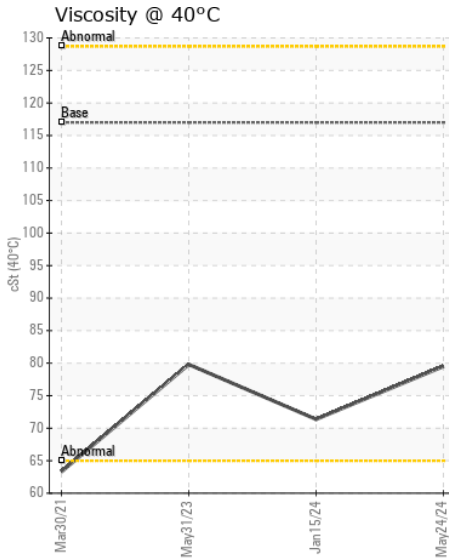
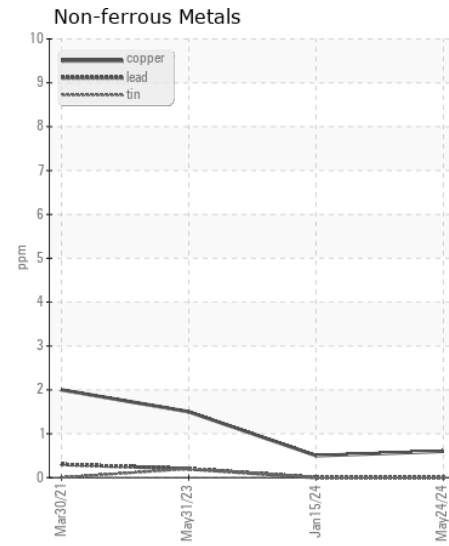
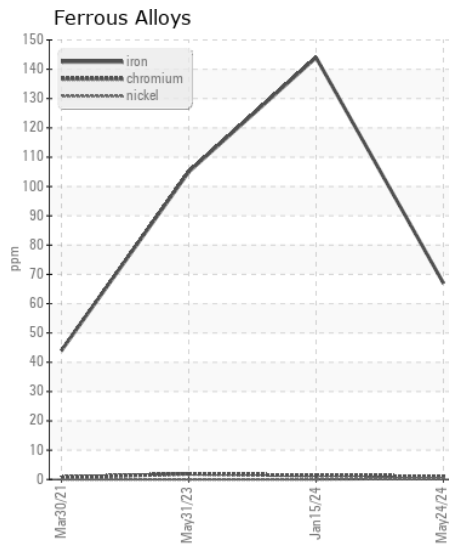
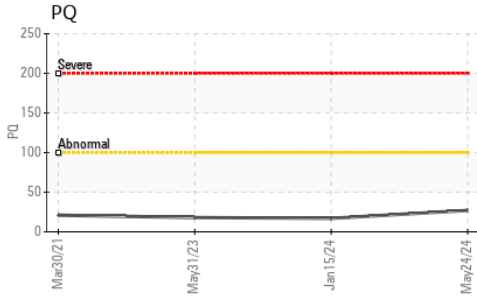
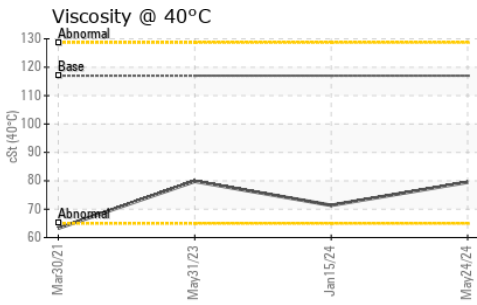
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>75	15	38	18
Potassium	ppm	ASTM D5185m	>20	2	0	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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		2	3	3
Boron	ppm	ASTM D5185m		256	283	41
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		205	234	71
Manganese	ppm	ASTM D5185m		<1	1	2
Magnesium	ppm	ASTM D5185m		653	770	9
Calcium	ppm	ASTM D5185m		1231	1470	2855
Phosphorus	ppm	ASTM D5185m		860	952	902
Zinc	ppm	ASTM D5185m		887	1008	938
Sulfur	ppm	ASTM D5185m		7913	3810	9963
Visc @ 40°C	cSt	ASTM D445	117	79.5	71.36	79.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0207193

Lab Number : 06192516

Unique Number : 11049268

Test Package : CONST (Additional Tests: PQ)

Received : 28 May 2024

Tested : 30 May 2024

Diagnosed : 30 May 2024 - Sean Felton

JRE - CASTLE HAYNE

113 CROWATAN ROAD

CASTLE HAYNE, NC

US 28429-5819

Contact: WILMINGTON SHOP

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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)