



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Area
Store 4 - Fairmont [RO# 151570]

Machine Id
PRINOTH T12 935300140

Component
Diesel Engine

Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Check for low coolant level. We advise that you check for the source of the coolant leak. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0048303	LEC0032219	LEC0013712
Sample Date		Client Info		10 Jun 2024	08 Jun 2022	15 Jun 2021
Machine Age	hrs	Client Info		2770	0	1670
Oil Age	hrs	Client Info		500	400	1237
Filter Age	hrs	Client Info		500	400	1237
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

Piston, ring and cylinder wear is indicated.

Iron	ppm	ASTM D5185m	>100	▲ 115	35	91
Chromium	ppm	ASTM D5185m	>20	4	1	3
Nickel	ppm	ASTM D5185m	>4	1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	▲ 30	8	13
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	20	2	43
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

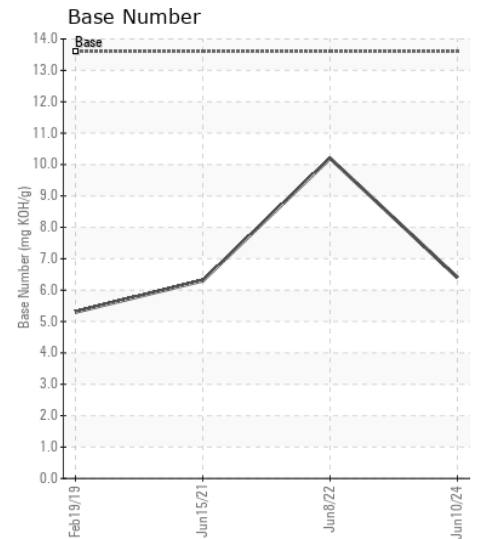
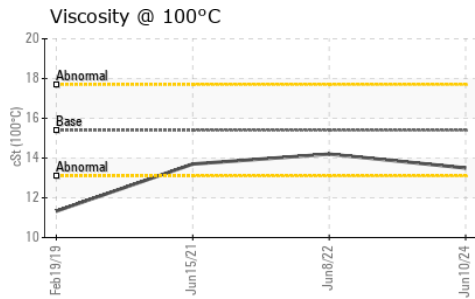
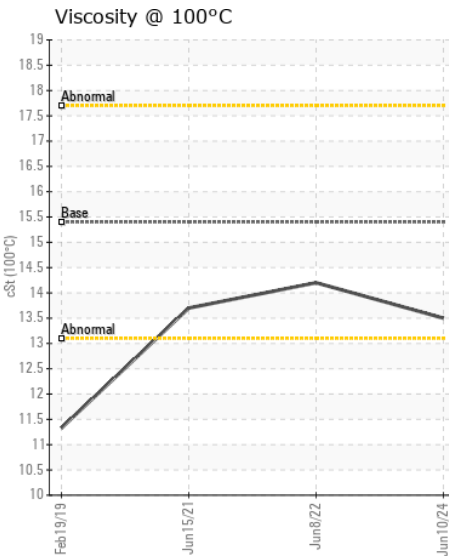
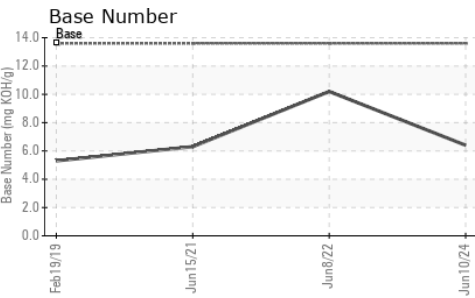
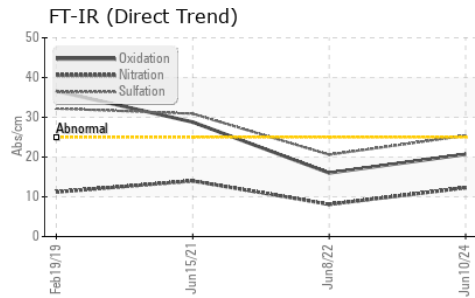
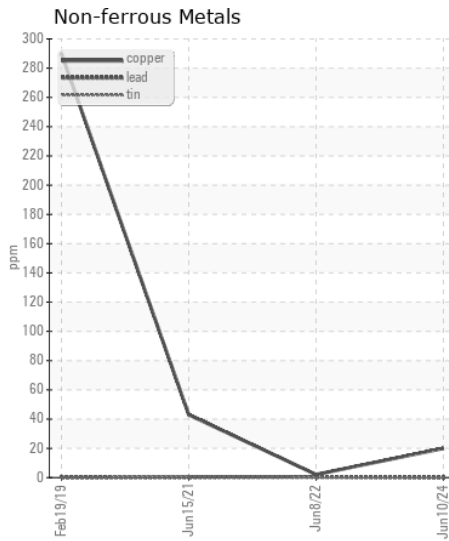
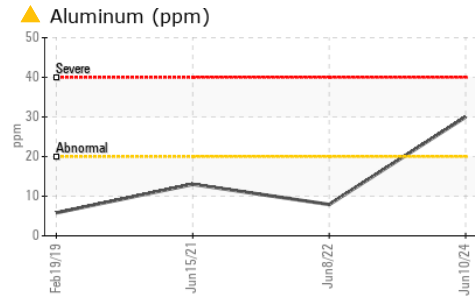
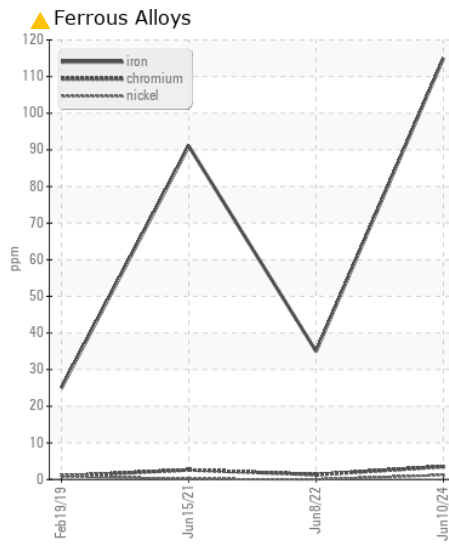
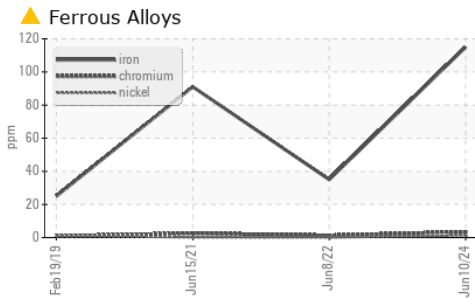
Sodium and/or potassium levels are high.

Silicon	ppm	ASTM D5185m	>120	16	8	13
Potassium	ppm	ASTM D5185m	>20	▲ 43	3	12
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.1	0.4
Nitration	Abs/cm	*ASTM D7624	>20	12.3	8.1	14
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.4	20.6	30.9
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 BN result indicates that there is suitable alkalinity remaining in the oil.

Sodium	ppm	ASTM D5185m		● 106	2	5
Boron	ppm	ASTM D5185m		32	215	32
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		183	187	171
Manganese	ppm	ASTM D5185m		2	<1	2
Magnesium	ppm	ASTM D5185m		604	623	615
Calcium	ppm	ASTM D5185m		1634	1578	1747
Phosphorus	ppm	ASTM D5185m		857	961	921
Zinc	ppm	ASTM D5185m		1078	1166	1132
Sulfur	ppm	ASTM D5185m		3501	3233	2579
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.7	16.0	28.8
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	6.4	10.2	6.3
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	14.2	13.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0048303 **Received** : 17 Jun 2024
Lab Number : 06211422 **Tested** : 19 Jun 2024
Unique Number : 11084286 **Diagnosed** : 19 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: Glycol, TBN)

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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