



OIL ANALYSIS REPORT

WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta [RO#134569]

Machine Id
PRINOTH T14R 935310196

Component
Diesel Engine

Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please note that this is a corrected copy for diagnostic comment updates.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0035472	LEC0028355	LEC0016934
Sample Date		Client Info		30 Dec 2022	07 Feb 2022	12 Jan 2021
Machine Age	hrs	Client Info		1574	1114	529
Oil Age	hrs	Client Info		460	585	529
Filter Age	hrs	Client Info		460	585	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	81	▲ 109	51
Chromium	ppm	ASTM D5185m	>20	3	4	1
Nickel	ppm	ASTM D5185m	>4	2	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	▲ 18	▲ 22	12
Lead	ppm	ASTM D5185m	>40	0	3	1
Copper	ppm	ASTM D5185m	>330	48	212	▲ 332
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

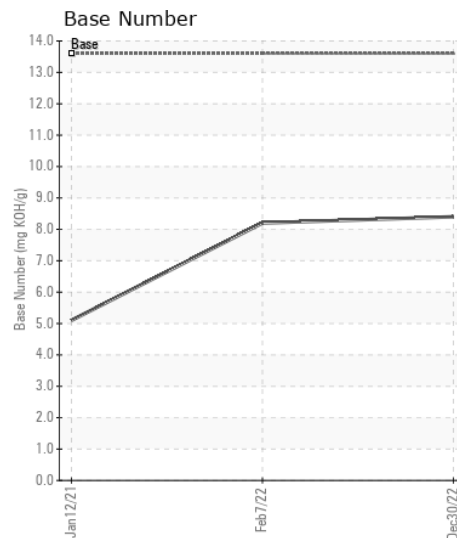
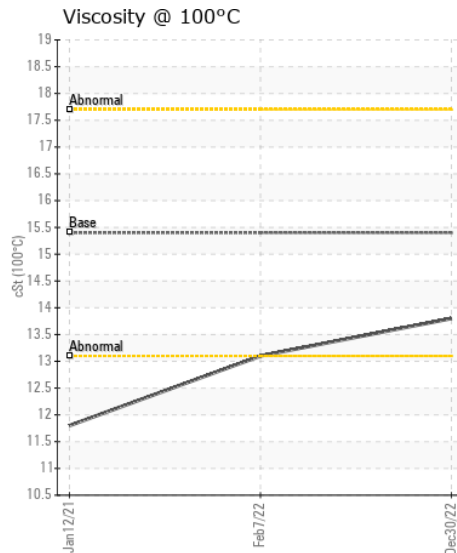
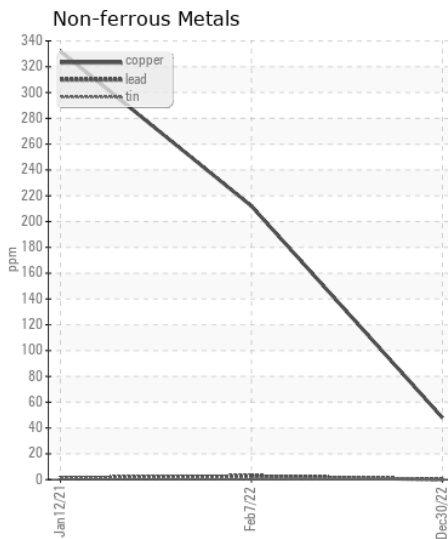
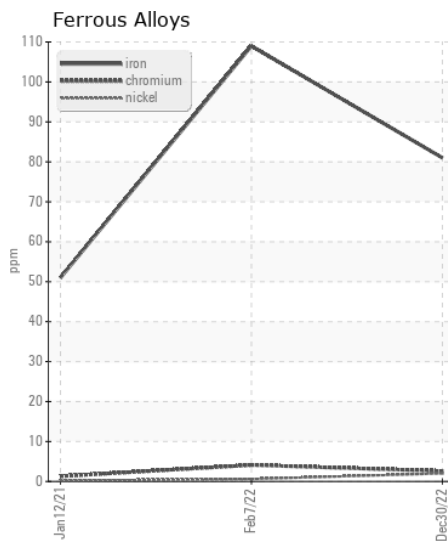
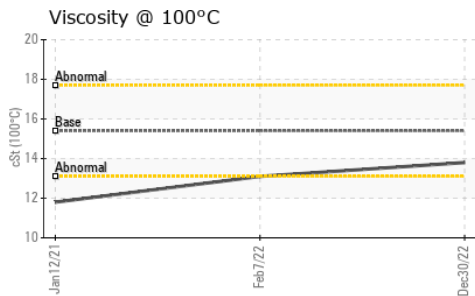
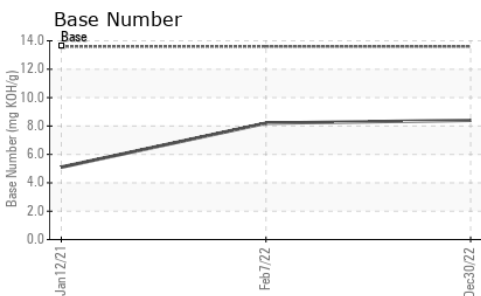
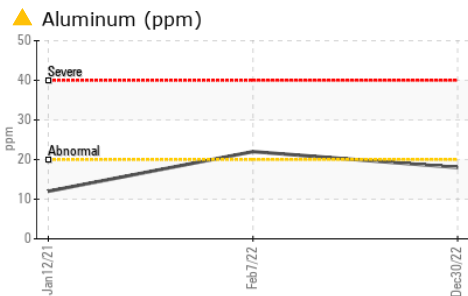
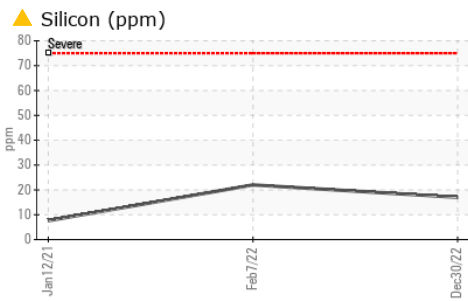
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>120	▲ 17	▲ 22	8
Potassium	ppm	ASTM D5185m	>20	4	3	7
Fuel		WC Method	>5	<1.0	<1.0	0.8
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.7	11.8	11
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	26.9	32.8
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. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		2	2	3
Boron	ppm	ASTM D5185m		94	77	34
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		144	200	6
Manganese	ppm	ASTM D5185m		1	2	3
Magnesium	ppm	ASTM D5185m		513	677	39
Calcium	ppm	ASTM D5185m		1518	1663	2425
Phosphorus	ppm	ASTM D5185m		902	851	1065
Zinc	ppm	ASTM D5185m		1106	1074	1349
Sulfur	ppm	ASTM D5185m		3345	2477	3371
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	22.9	33.4
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.4	8.2	5.1
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.1	▲ 11.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0035472 **Received** : 05 Jan 2023
Lab Number : 05730816 **Tested** : 06 Jan 2023
Unique Number : 10280414 **Diagnosed** : 06 Jan 2023 - Jonathan Hester
Test Package : CONST (Additional Tests: TBN)

LESLIE EQUIPMENT COMPANY
 105 TENNIS CENTER DR.
 MARIETTA, OH
 US 45750-9765
 Contact: LEANNE KENDALL
 KendallLeanne@lec1.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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