



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 4 - Fairmont [RO# 151870]

Machine Id
PRINOTH 935310208

Component
Diesel Engine

Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (10 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0048306	LEC0041732	LEC0036862
Sample Date		Client Info		10 Jun 2024	17 May 2023	29 Nov 2022
Machine Age	hrs	Client Info		2214	1748	1364
Oil Age	hrs	Client Info		466	384	383
Filter Age	hrs	Client Info		466	384	383
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	134	48	70
Chromium	ppm	ASTM D5185m	>20	6	3	3
Nickel	ppm	ASTM D5185m	>4	2	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	2
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	59	25	37
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	7	4	5
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

There is no indication of any contamination in the oil.

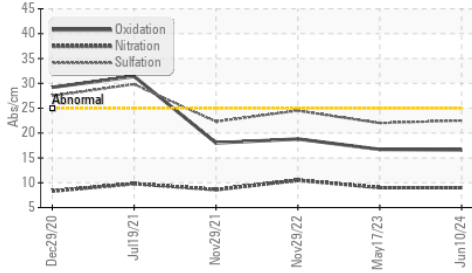
Silicon	ppm	ASTM D5185m	>120	18	10	12
Potassium	ppm	ASTM D5185m	>20	7	2	4
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.0	9.0	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	22.0	24.5
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

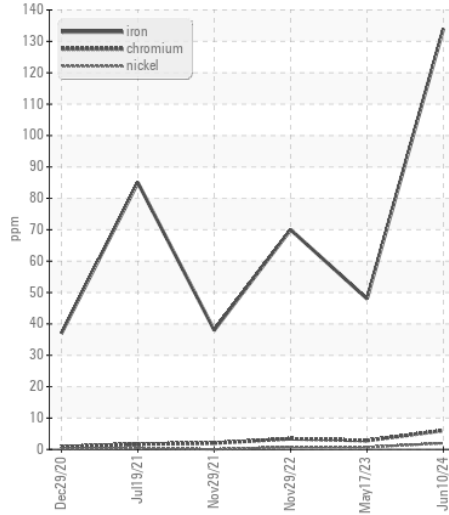
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		5	2	2
Boron	ppm	ASTM D5185m		169	196	161
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		219	223	235
Manganese	ppm	ASTM D5185m		2	1	1
Magnesium	ppm	ASTM D5185m		748	739	789
Calcium	ppm	ASTM D5185m		1530	1674	1514
Phosphorus	ppm	ASTM D5185m		948	917	881
Zinc	ppm	ASTM D5185m		1128	1113	1155
Sulfur	ppm	ASTM D5185m		3607	3460	3526
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	16.7	18.8
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.9	8.6	9.4
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.5	13.9

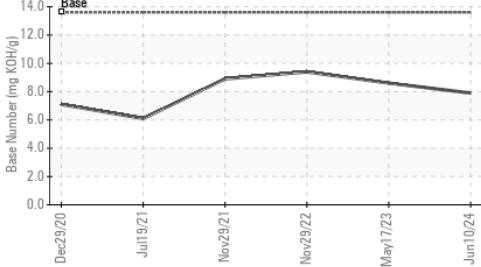
FT-IR (Direct Trend)



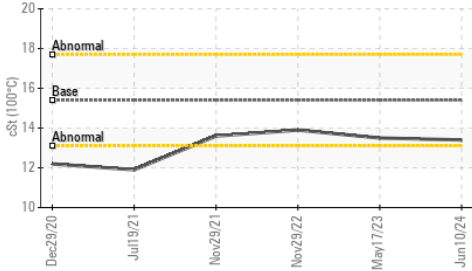
Ferrous Alloys



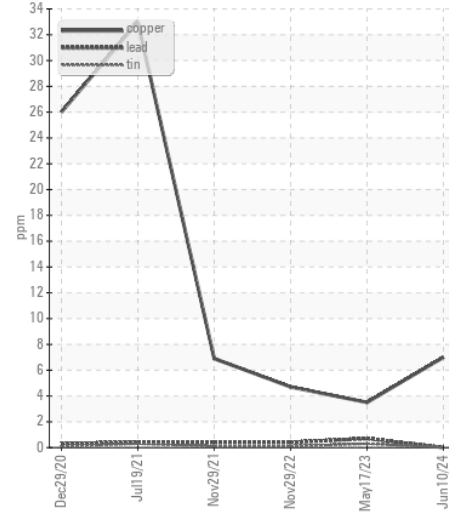
Base Number



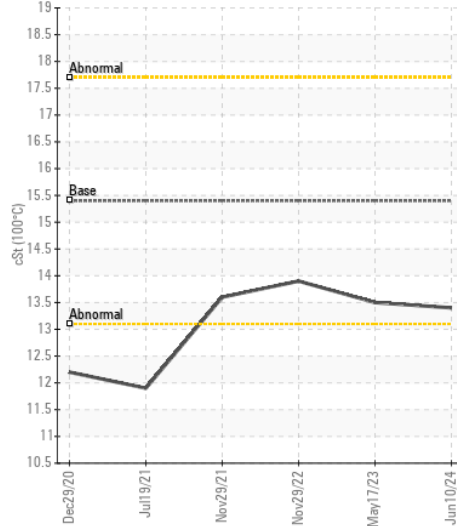
Viscosity @ 100°C



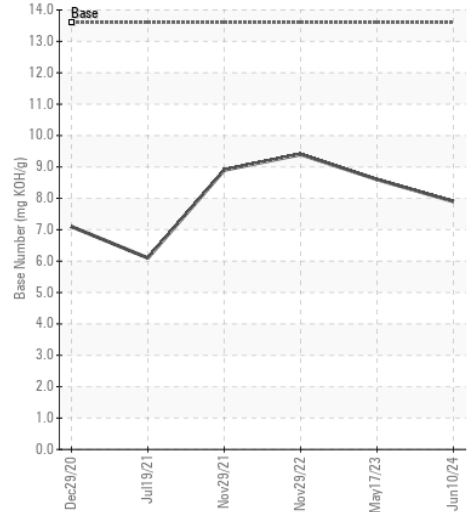
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0048306
Lab Number : 06211416
Unique Number : 11084280
Test Package : CONST (Additional Tests: TBN)

Received : 17 Jun 2024
Tested : 18 Jun 2024
Diagnosed : 18 Jun 2024 - Wes Davis

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