LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 2 - Beaver [152477]
Machine Id
PRINOTH T12 935300215
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (4 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

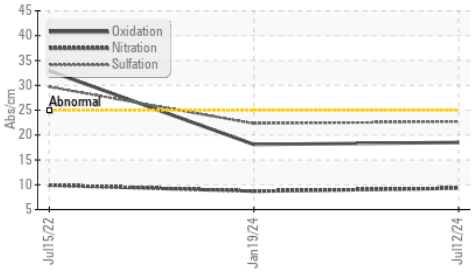
There is no indication of any contamination in the oil.

FLUID CONDITION

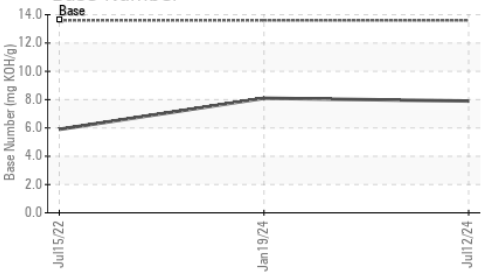
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0047560	LEC0045893	LEC0032319
Sample Date		Client Info		12 Jul 2024	19 Jan 2024	15 Jul 2022
Machine Age	hrs	Client Info		799	704	330
Oil Age	hrs	Client Info		469	374	330
Filter Age	hrs	Client Info		469	374	330
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	113	90	112
Chromium	ppm	ASTM D5185m	>20	2	2	2
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	1
Aluminum	ppm	ASTM D5185m	>20	19	12	17
Lead	ppm	ASTM D5185m	>40	0	1	5
Copper	ppm	ASTM D5185m	>330	102	81	▲ 516
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>!20	8	8	9
Potassium	ppm	ASTM D5185m	>20	3	4	10
Fuel		WC Method	>5	<1.0	<1.0	0.3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.3	8.7	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	22.3	29.7
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
Sodium	ppm	ASTM D5185m		3	2	2
Boron	ppm	ASTM D5185m		198	192	45
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		196	183	15
Manganese	ppm	ASTM D5185m		2	1	3
Magnesium	ppm	ASTM D5185m		684	694	97
Calcium	ppm	ASTM D5185m		1579	1478	2144
Phosphorus	ppm	ASTM D5185m		926	917	951
Zinc	ppm	ASTM D5185m		1052	1105	1171
Sulfur	ppm	ASTM D5185m		3381	3109	4117
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5	18.1	32.9
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.9	8.1	5.9
Visc @ 100°C	cSt	ASTM D445	15.4	12.9	13.1	● 11.3

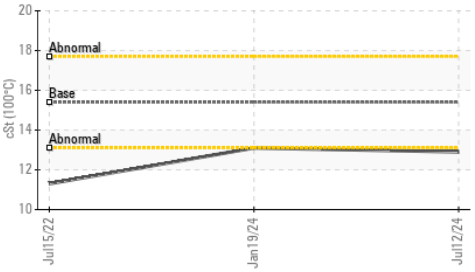
FT-IR (Direct Trend)



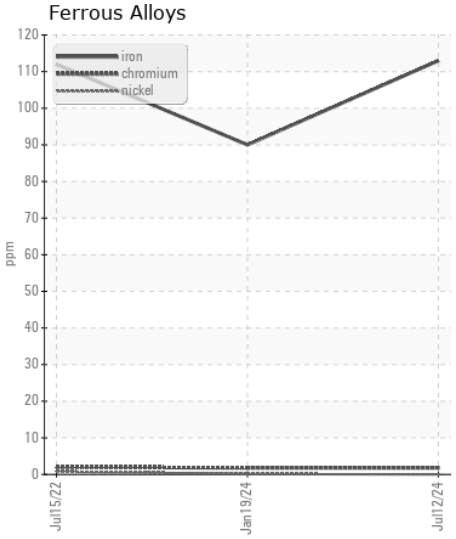
Base Number



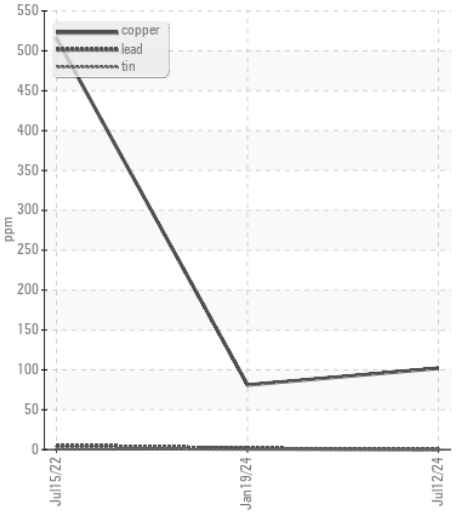
Viscosity @ 100°C



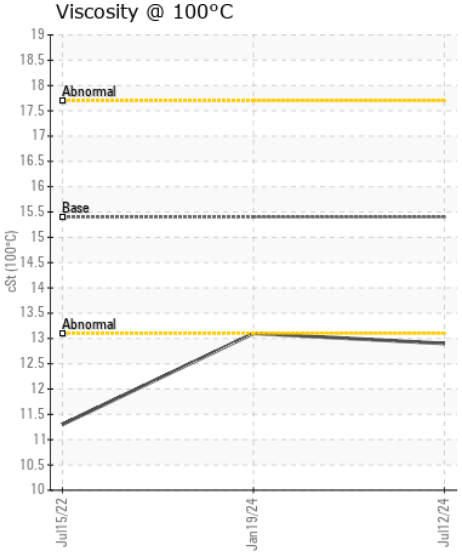
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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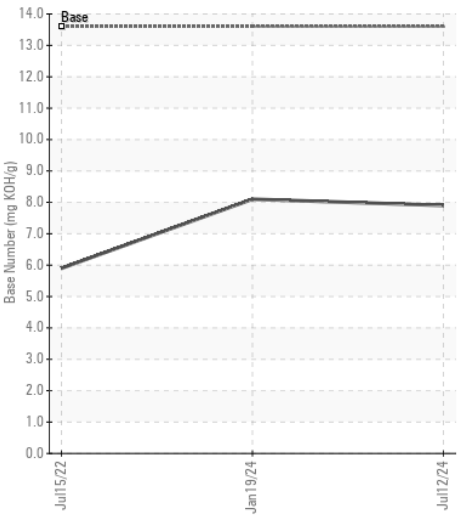

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0047560
Lab Number : 06235652
Unique Number : 11124486
Test Package : CONST (Additional Tests: TBN)

Received : 15 Jul 2024
Tested : 16 Jul 2024
Diagnosed : 16 Jul 2024 - Wes Davis

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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