LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta
Machine Id
JOHN DEERE 950K 1T0950KPPJF340943
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

The iron level is abnormal. All other component wear rates are normal.

CONTAMINATION

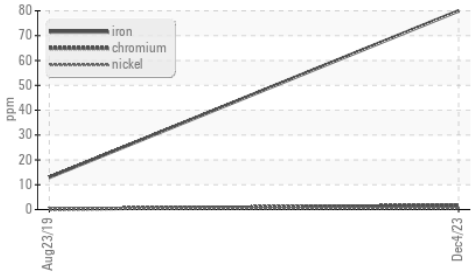
There is no indication of any contamination in the oil.

FLUID CONDITION

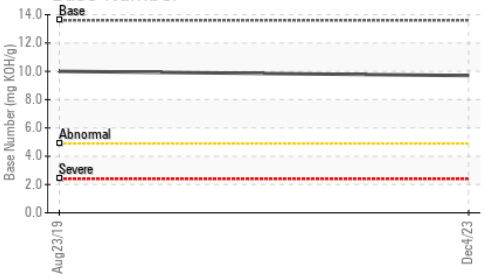
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2	
Sample Number		Client Info		LEC0046614	LEC0006296	---	
Sample Date		Client Info		04 Dec 2023	23 Aug 2019	---	
Machine Age	hrs	Client Info		3189	491	---	
Oil Age	hrs	Client Info		478	491	---	
Filter Age	hrs	Client Info		478	491	---	
Oil Changed		Client Info		Changed	Changed	---	
Filter Changed		Client Info		Changed	Changed	---	
Sample Status				ABNORMAL	NORMAL	---	
Iron	ppm	ASTM D5185m	>51	▲ 80	13	---	
Chromium	ppm	ASTM D5185m	>11	2	<1	---	
Nickel	ppm	ASTM D5185m	>5	<1	<1	---	
Titanium	ppm	ASTM D5185m		9	<1	---	
Silver	ppm	ASTM D5185m	>3	0	0	---	
Aluminum	ppm	ASTM D5185m	>31	3	5	---	
Lead	ppm	ASTM D5185m	>26	1	2	---	
Copper	ppm	ASTM D5185m	>26	6	18	---	
Tin	ppm	ASTM D5185m	>4	1	0	---	
Vanadium	ppm	ASTM D5185m		<1	0	---	
White Metal	scalar	*Visual	NONE	NONE	NONE	---	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---	
Silicon	ppm	ASTM D5185m	>!20	9	8	---	
Potassium	ppm	ASTM D5185m	>20	28	0	---	
Fuel		WC Method	>2.1	<1.0	<1.0	---	
Water		WC Method	>0.21	NEG	NEG	---	
Glycol		WC Method		NEG	NEG	---	
Soot %	%	*ASTM D7844	>3	1.2	0.1	---	
Nitration	Abs/cm	*ASTM D7624	>20	9.8	5.1	---	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	22.4	---	
Silt	scalar	*Visual	NONE	NONE	NONE	---	
Debris	scalar	*Visual	NONE	NONE	NONE	---	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---	
Appearance	scalar	*Visual	NORML	NORML	NORML	---	
Odor	scalar	*Visual	NORML	NORML	NORML	---	
Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	---	
Sodium	ppm	ASTM D5185m	>31	45	2	---	
Boron	ppm	ASTM D5185m		16	336	---	
Barium	ppm	ASTM D5185m		0	0	---	
Molybdenum	ppm	ASTM D5185m		91	133	---	
Manganese	ppm	ASTM D5185m		<1	<1	---	
Magnesium	ppm	ASTM D5185m		993	680	---	
Calcium	ppm	ASTM D5185m		1349	1539	---	
Phosphorus	ppm	ASTM D5185m		1079	720	---	
Zinc	ppm	ASTM D5185m		1339	849	---	
Sulfur	ppm	ASTM D5185m		3160	2189	---	
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	15.5	---	
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.7	10	---	
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.7	---	

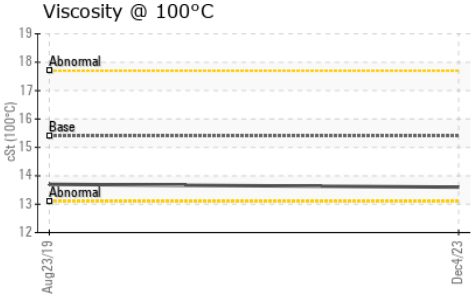
Ferrous Alloys



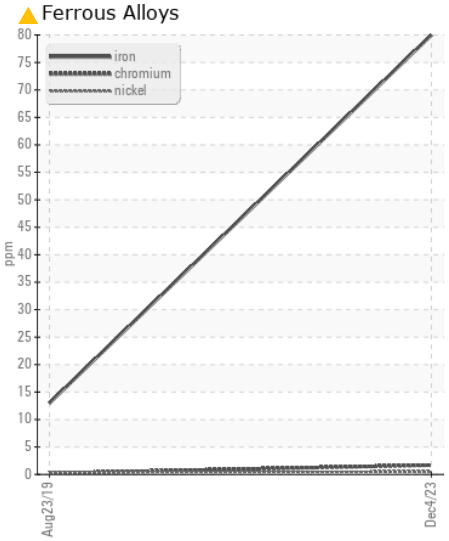
Base Number



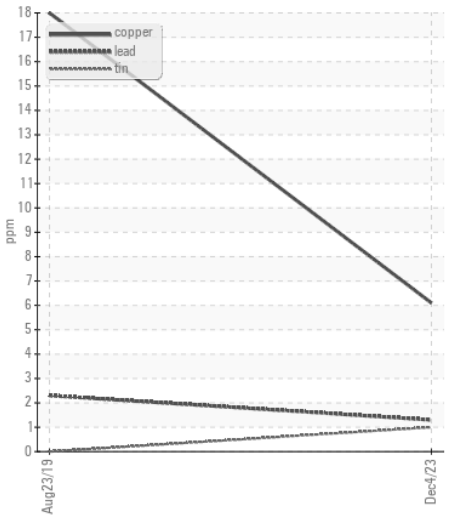
Viscosity @ 100°C



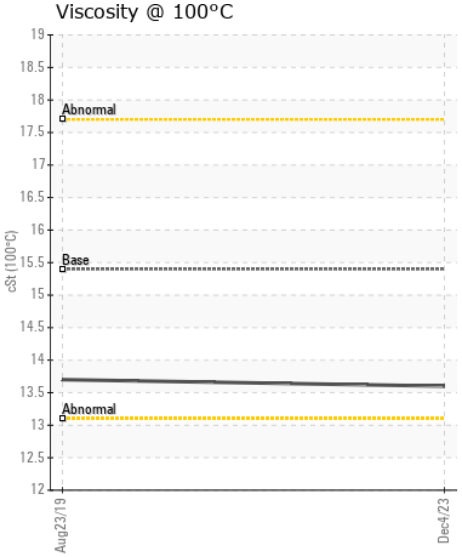
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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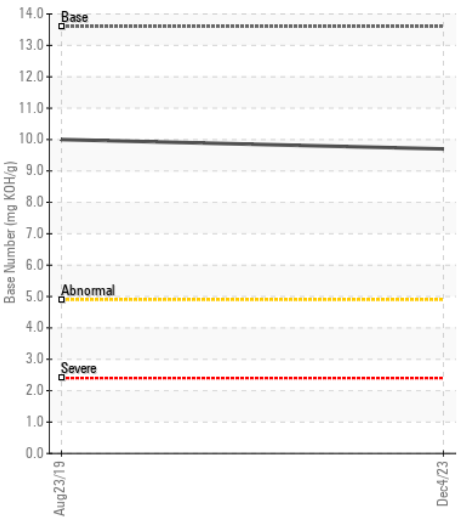

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0046614
Lab Number : 06027584
Unique Number : 10777375
Test Package : CONST (Additional Tests: TBN)

Received : 07 Dec 2023
Tested : 08 Dec 2023
Diagnosed : 11 Dec 2023 - Jonathan Hester

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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Report Id: LESMAROH [WUSCAR] 06027584 (Generated: 03/26/2024 10:03:26) Rev: 2

Submitted By: STORE5 - CROSS LANES - NEIL BALL