CONST

LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 4 - Fairmont
Machine Id
CHEV 3500HD 1GB4YSEY5LF233821
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (10 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry updates for time on unit and oil.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

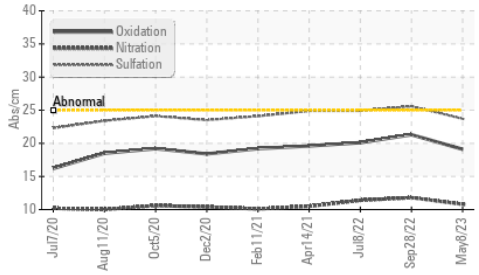
There is no indication of any contamination in the oil.

FLUID CONDITION

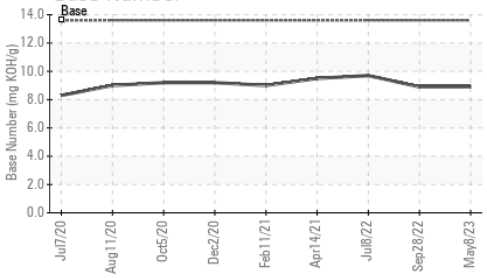
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0038192	LEC0033433	LEC0031944
Sample Date		Client Info		08 May 2023	28 Sep 2022	08 Jul 2022
Machine Age	mls	Client Info		123238	98069	88989
Oil Age	mls	Client Info		8695	7500	42653
Filter Age	mls	Client Info		8695	7500	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	35	35	37
Chromium	ppm	ASTM D5185m	>20	1	1	1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	9	12	13
Lead	ppm	ASTM D5185m	>40	2	2	2
Copper	ppm	ASTM D5185m	>330	4	12	9
Tin	ppm	ASTM D5185m	>15	<1	1	1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>!20	8	7	7
Potassium	ppm	ASTM D5185m	>20	8	14	14
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	0.8	0.9	0.9
Nitration	Abs/cm	*ASTM D7624	>20	10.8	11.8	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	25.6	24.9
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
Sodium	ppm	ASTM D5185m		<1	0	2
Boron	ppm	ASTM D5185m		159	123	136
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m		226	188	189
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		766	613	693
Calcium	ppm	ASTM D5185m		1519	1556	1652
Phosphorus	ppm	ASTM D5185m		865	900	934
Zinc	ppm	ASTM D5185m		1094	1068	1217
Sulfur	ppm	ASTM D5185m		3292	3279	3762
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	21.3	20.1
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.9	8.9	9.7
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.8	13.9

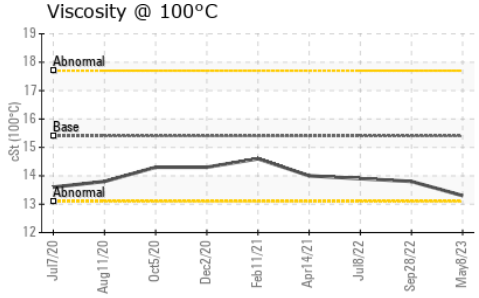
FT-IR (Direct Trend)



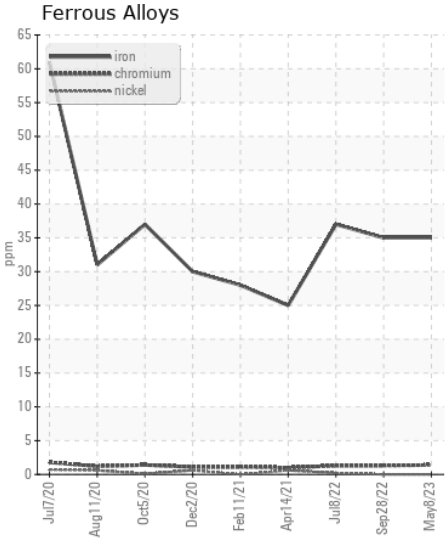
Base Number



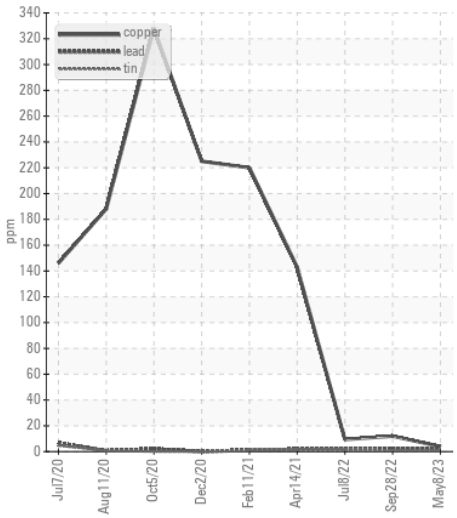
Viscosity @ 100°C



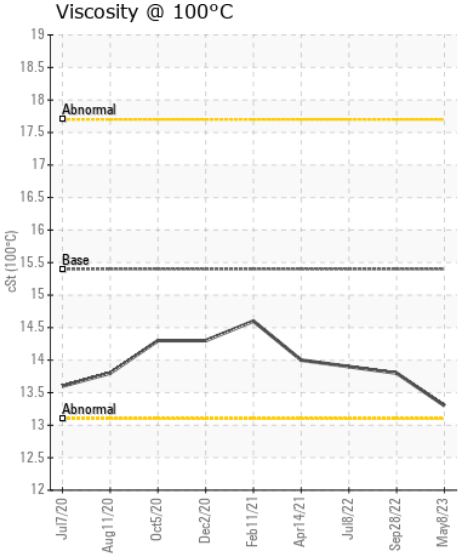
Ferrous Alloys



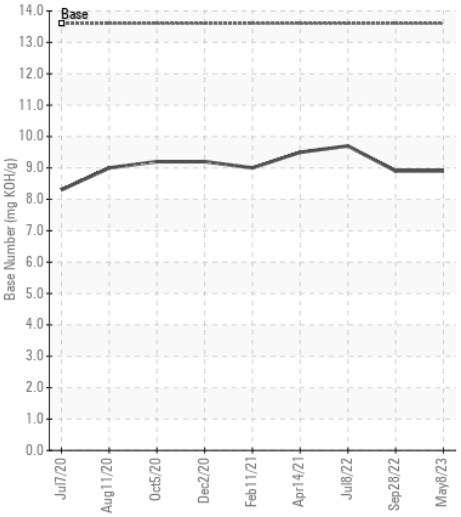
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0038192
Lab Number : 05843129
Unique Number : 10467236
Test Package : CONST (Additional Tests: TBN)

Received : 10 May 2023
Tested : 08 Dec 2023
Diagnosed : 08 Dec 2023 - Doug Bogart

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)

LESLIE EQUIPMENT COMPANY
105 TENNIS CENTER DR.
MARIETTA, OH
US 45750-9765
Contact: LEANNE KENDALL
KendalLeanne@lec1.com
T:
F: (740)373-5570