



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Area
Store 9 - Marietta
 Machine Id
CHEVY 3500HD 1GB3KYCX6JF154948
 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0049681	LEC0036084	LEC0016530
Sample Date		Client Info		08 Apr 2024	10 Oct 2022	10 Sep 2020
Machine Age	hrs	Client Info		257721	202973	133516
Oil Age	hrs	Client Info		54748	69457	20799
Filter Age	hrs	Client Info		54748	69457	20799
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	17	19	22
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	7	13
Lead	ppm	ASTM D5185m	>40	1	1	<1
Copper	ppm	ASTM D5185m	>330	0	1	2
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

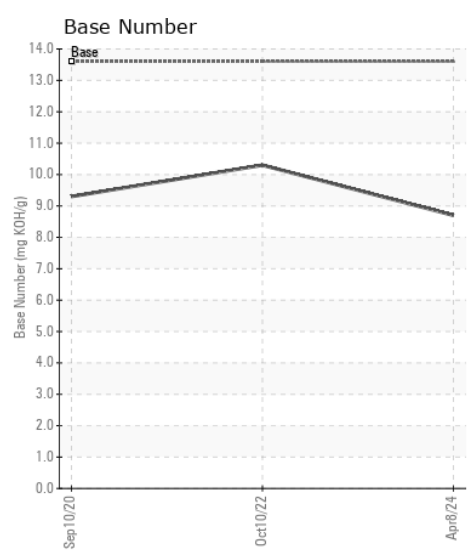
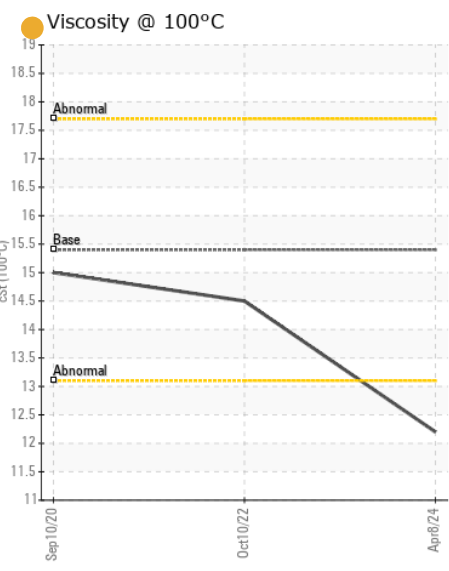
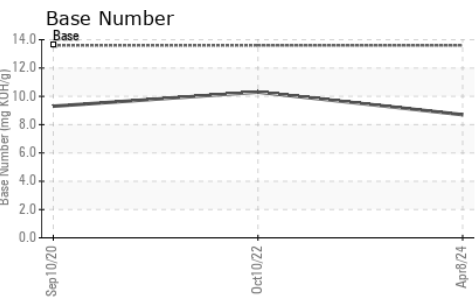
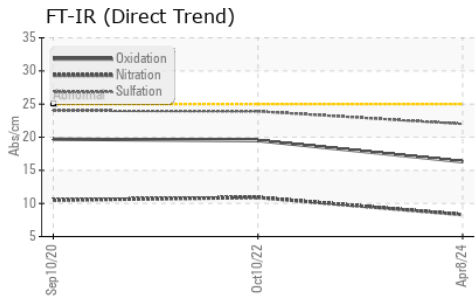
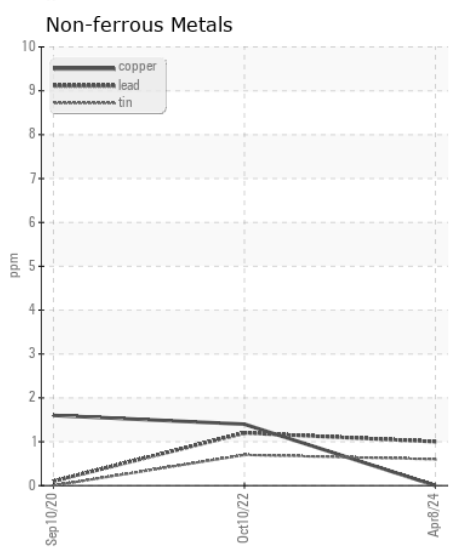
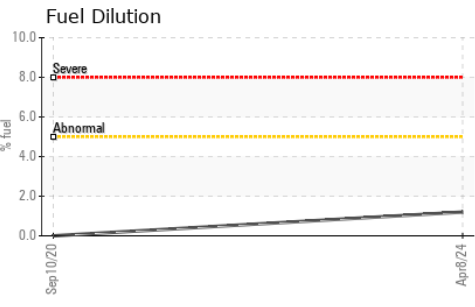
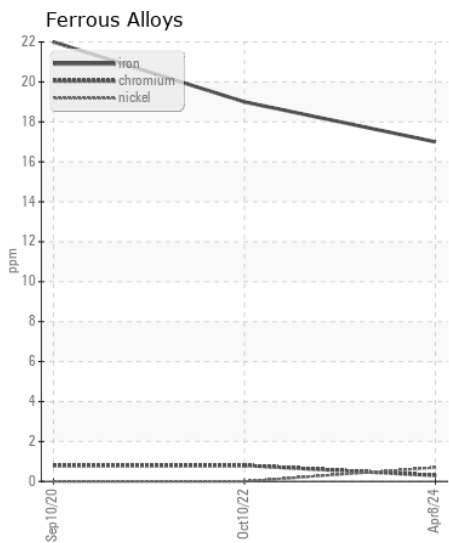
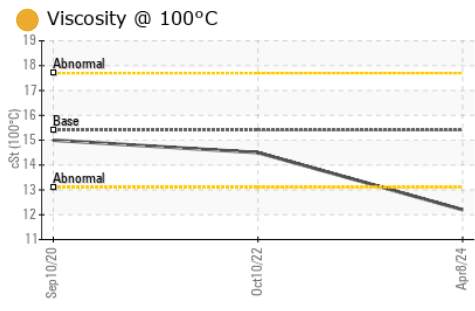
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	6	9	10
Potassium	ppm	ASTM D5185m	>20	6	4	16
Fuel	%	ASTM D3524	>5	1.2	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	8.3	10.9	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	23.9	24
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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		2	0	2
Boron	ppm	ASTM D5185m		164	216	207
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		161	240	264
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		552	818	882
Calcium	ppm	ASTM D5185m		2300	1530	1467
Phosphorus	ppm	ASTM D5185m		999	911	886
Zinc	ppm	ASTM D5185m		1212	1135	1049
Sulfur	ppm	ASTM D5185m		3791	3782	2498
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	19.5	19.7
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.7	10.3	9.3
Visc @ 100°C	cSt	ASTM D445	15.4	12.2	14.5	15.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0049681 **Received** : 10 Apr 2024
Lab Number : 06145224 **Tested** : 15 Apr 2024
Unique Number : 10970032 **Diagnosed** : 15 Apr 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

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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)