



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

Store 2 - Beaver [RO#146963]

Machine Id

CHEVROLET 3500 HD 1GB4YSEY3LF253498

Component

Diesel Engine

Fluid

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

RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: UNIT 684- Last service done at 55,279 hrs )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0046788	LEC0032336	LEC0026676
Sample Date		Client Info		15 Jan 2024	24 Jun 2022	08 Dec 2021
Machine Age	hrs	Client Info		63688	39881	32326
Oil Age	hrs	Client Info		8409	7555	7418
Filter Age	hrs	Client Info		8409	7555	7418
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	43	79	65
Chromium	ppm	ASTM D5185m	>20	1	3	2
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	11	19	13
Lead	ppm	ASTM D5185m	>40	4	3	3
Copper	ppm	ASTM D5185m	>330	4	23	79
Tin	ppm	ASTM D5185m	>15	<1	2	2
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

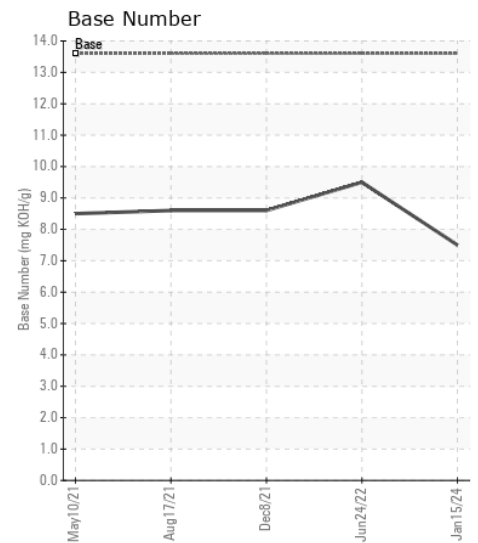
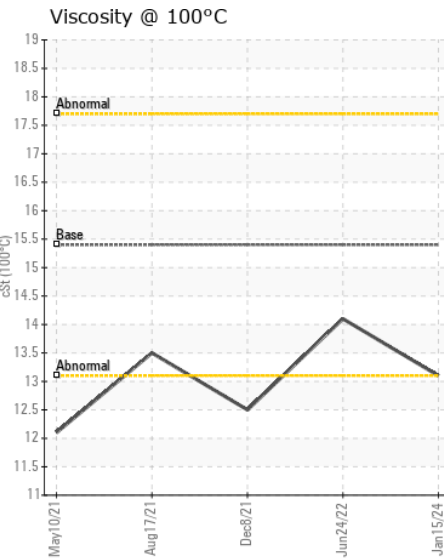
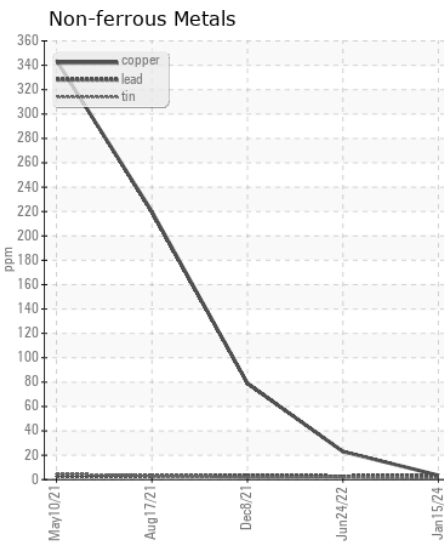
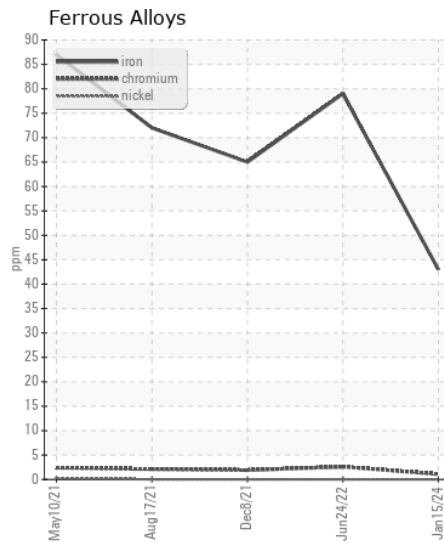
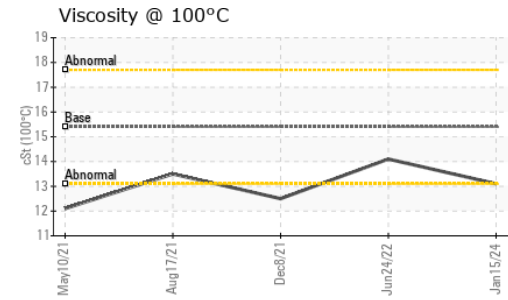
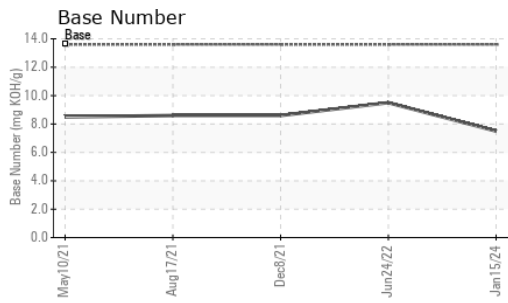
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	11	13	15
Potassium	ppm	ASTM D5185m	>20	14	24	21
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	0.9	1.6	1.3
Nitration	Abs/cm	*ASTM D7624	>20	10.8	12.7	12.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.4	26.6	25.2
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		0	<1	0
Boron	ppm	ASTM D5185m		172	144	123
Barium	ppm	ASTM D5185m		4	0	0
Molybdenum	ppm	ASTM D5185m		260	263	220
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		837	773	738
Calcium	ppm	ASTM D5185m		1330	1428	1413
Phosphorus	ppm	ASTM D5185m		789	855	783
Zinc	ppm	ASTM D5185m		1069	1081	963
Sulfur	ppm	ASTM D5185m		2976	2788	2015
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.1	21.6	21.8
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.5	9.5	8.6
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	14.1	12.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0046788 **Received** : 18 Jan 2024  
**Lab Number** : 06064016 **Diagnosed** : 20 Jan 2024  
**Unique Number** : 10835398 **Diagnostician** : Don Baldrige  
**Test Package** : CONST ( Additional Tests: TBN )

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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