



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
CHEVROLET 2500HD 2GC4YMEY5P1706931
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (12 QTS)

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		LEC0050861	LEC0050543	LEC0047833
Sample Date		Client Info		02 Jul 2024	03 May 2024	22 Feb 2024
Machine Age	mls	Client Info		65442	56836	48430
Oil Age	mls	Client Info		8606	8406	8429
Filter Age	mls	Client Info		8606	8406	8429
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	16	14	14
Chromium	ppm	ASTM D5185m	>20	1	1	<1
Nickel	ppm	ASTM D5185m	>4	<1	1	<1
Titanium	ppm	ASTM D5185m		1	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	5	4	7
Lead	ppm	ASTM D5185m	>40	<1	3	<1
Copper	ppm	ASTM D5185m	>330	108	109	115
Tin	ppm	ASTM D5185m	>15	1	3	1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

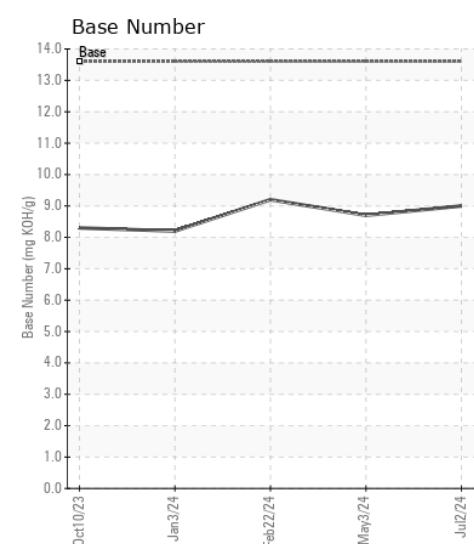
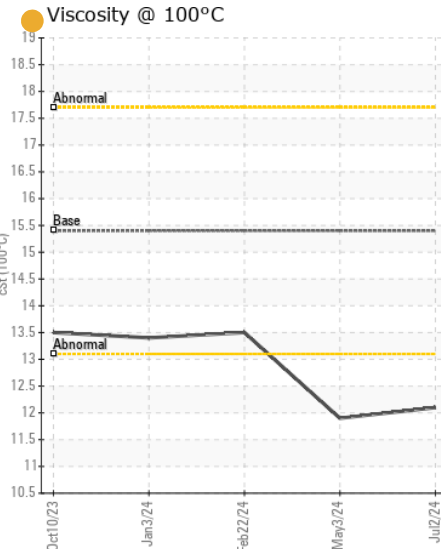
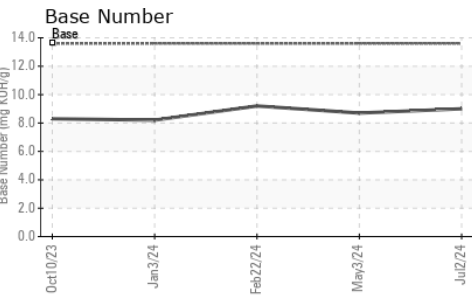
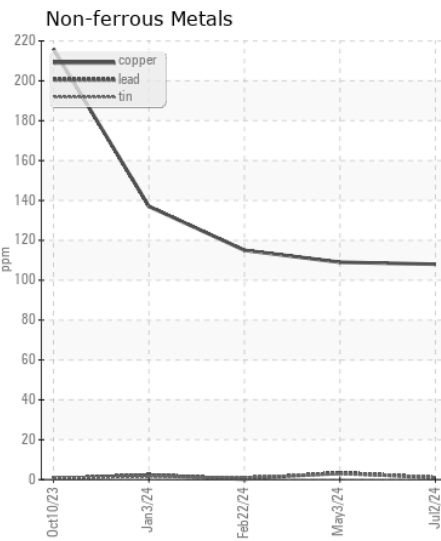
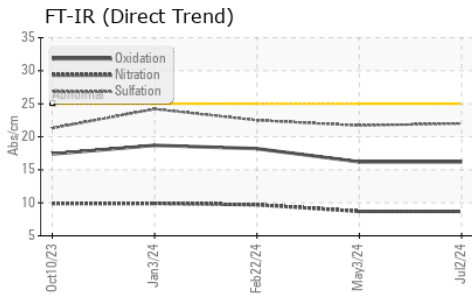
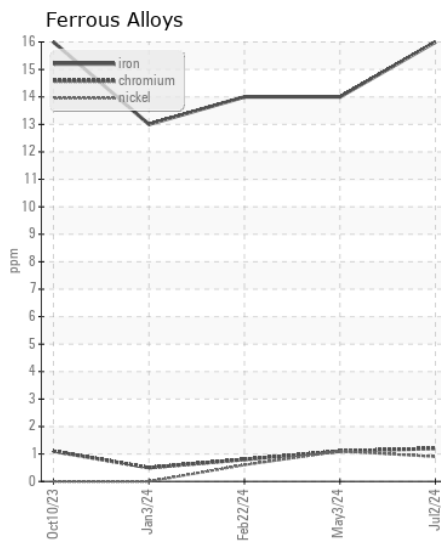
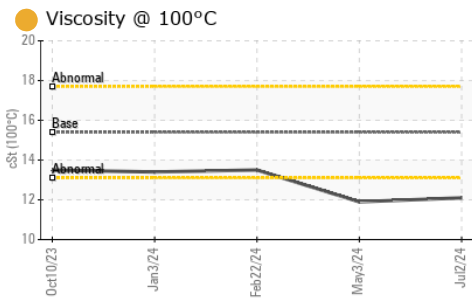
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	9	8	10
Potassium	ppm	ASTM D5185m	>20	5	5	15
Fuel		WC Method	>5	<1.0	0.2	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	8.7	8.7	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	21.7	22.5
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	2	<1
Boron	ppm	ASTM D5185m		162	152	219
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		181	158	247
Manganese	ppm	ASTM D5185m		1	1	<1
Magnesium	ppm	ASTM D5185m		611	629	730
Calcium	ppm	ASTM D5185m		2156	2161	1361
Phosphorus	ppm	ASTM D5185m		987	1013	931
Zinc	ppm	ASTM D5185m		1211	1187	1045
Sulfur	ppm	ASTM D5185m		3281	3835	3165
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	16.2	18.2
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.0	8.7	9.2
Visc @ 100°C	cSt	ASTM D445	15.4	12.1	11.9	13.5



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0050861 **Received** : 08 Jul 2024
Lab Number : 06229939 **Tested** : 09 Jul 2024
Unique Number : 11113432 **Diagnosed** : 09 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: TBN)

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Certificate L2367
 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)