



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**JOHN DEERE 460E 40451**  
 Component  
**Diesel Engine**  
 Fluid  
**CHEVRON 15W40 (--- QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0924566	WC0913735	WC0846606
Sample Date		Client Info		19 Apr 2024	01 Apr 2024	14 Feb 2024
Machine Age	hrs	Client Info		0	8412	8192
Oil Age	hrs	Client Info		0	1250	1250
Filter Age	hrs	Client Info		0	1250	1250
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	ATTENTION	ATTENTION

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	4	5	7
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	5	2	3
Lead	ppm	ASTM D5185m	>26	<1	1	<1
Copper	ppm	ASTM D5185m	>26	3	3	4
Tin	ppm	ASTM D5185m	>4	<1	1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

## CONTAMINATION

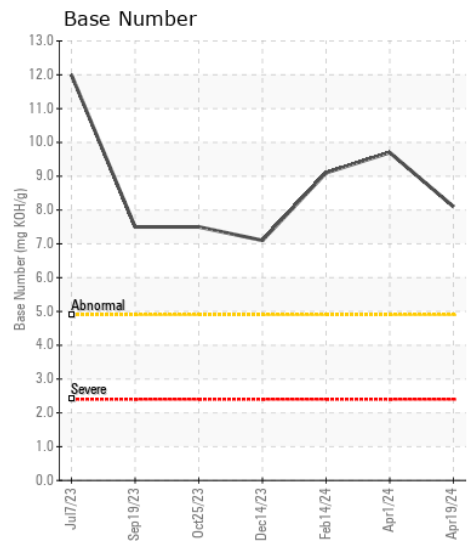
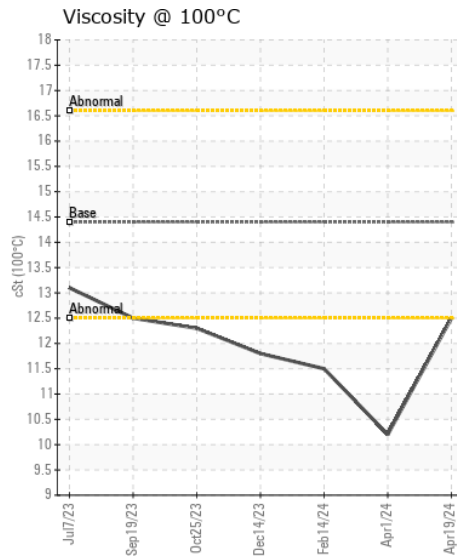
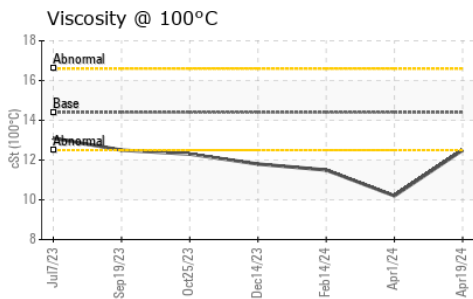
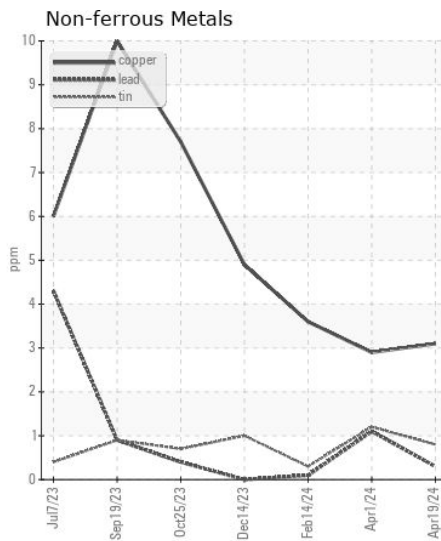
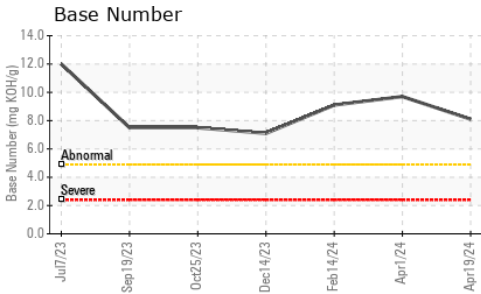
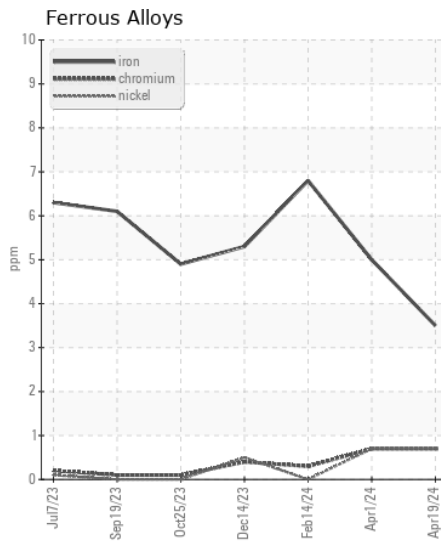
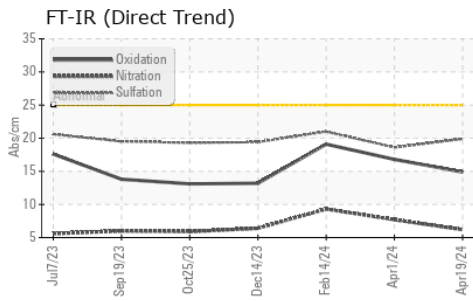
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	5	6	6
Potassium	ppm	ASTM D5185m	>20	6	5	5
Fuel		WC Method	>2.1	<1.0	<1.0	2.4
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.2	7.7	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	18.6	21.0
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	>0.21	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	>50	12	9	16
Boron	ppm	ASTM D5185m		318	212	120
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		67	25	50
Manganese	ppm	ASTM D5185m		<1	1	0
Magnesium	ppm	ASTM D5185m		448	708	854
Calcium	ppm	ASTM D5185m		1216	1247	1343
Phosphorus	ppm	ASTM D5185m		863	771	842
Zinc	ppm	ASTM D5185m		1085	894	987
Sulfur	ppm	ASTM D5185m		3159	3522	2727
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	16.8	19.1
Base Number (BN)	mg KOH/g	ASTM D2896		8.1	9.7	9.1
Visc @ 100°C	cSt	ASTM D445	14.4	12.5	10.2	11.5



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0924566 **Received** : 22 Apr 2024  
**Lab Number** : **06156584** **Tested** : 23 Apr 2024  
**Unique Number** : 10992007 **Diagnosed** : 23 Apr 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: 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)