



# WEAR CHECK

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**JOHN DEERE JOHN DEERE 200 KW**  
 Component  
**Auxiliary Engine**  
 Fluid  
**MOBIL 15W40 (10 GAL)**

### RECOMMENDATION

( Customer Sample Comment:  
 Top Up Amount: 1 GAL )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>KL0013533</b>	KL0013586	KL0011796
Sample Date		Client Info		<b>09 Jul 2024</b>	17 Jun 2024	28 Mar 2024
Machine Age	hrs	Client Info		<b>5035</b>	4785	3980
Oil Age	hrs	Client Info		<b>250</b>	750	2500
Filter Age	hrs	Client Info		<b>250</b>	250	2500
Oil Changed		Client Info		<b>Oil Added</b>	Oil Added	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

Iron	ppm	ASTM D5185m	>100	<b>7</b>	6	16
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>1</b>	<1	2
Lead	ppm	ASTM D5185m	>40	<b>0</b>	<1	2
Copper	ppm	ASTM D5185m	>330	<b>1</b>	1	4
Tin	ppm	ASTM D5185m	>15	<b>0</b>	0	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

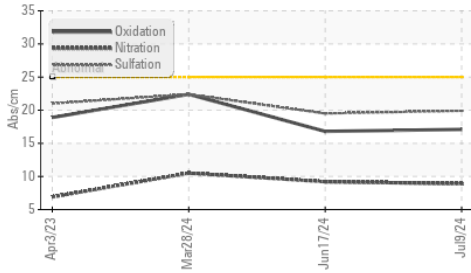
### CONTAMINATION

Silicon	ppm	ASTM D5185m	>25	<b>4</b>	3	6
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	2
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.2</b>	0.2	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.9</b>	9.2	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.9</b>	19.5	22.4
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

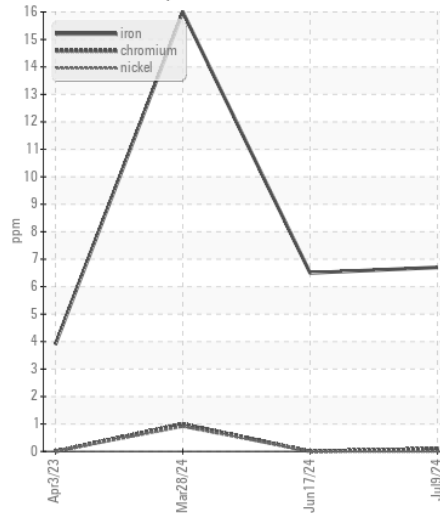
### FLUID CONDITION

Sodium	ppm	ASTM D5185m	>118	<b>1</b>	1	<1
Boron	ppm	ASTM D5185m		<b>53</b>	52	41
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>11</b>	11	33
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185m		<b>575</b>	553	461
Calcium	ppm	ASTM D5185m		<b>1817</b>	1755	1804
Phosphorus	ppm	ASTM D5185m		<b>892</b>	829	770
Zinc	ppm	ASTM D5185m		<b>968</b>	942	955
Sulfur	ppm	ASTM D5185m		<b>3889</b>	3616	3012
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.1</b>	16.8	22.4
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.7</b>	7.3	7.0
Visc @ 100°C	cSt	ASTM D445		<b>13.1</b>	13.2	13.4

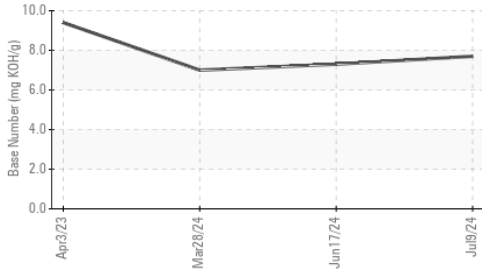
**FT-IR (Direct Trend)**



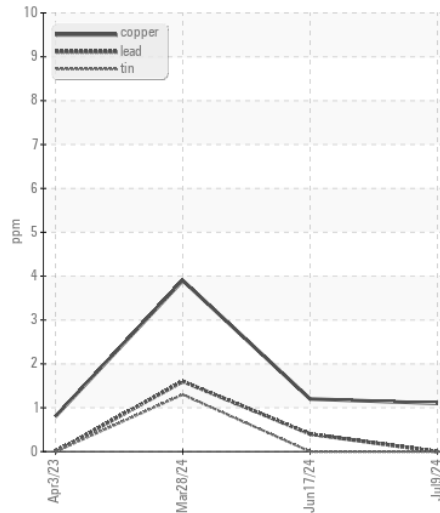
**Ferrous Alloys**



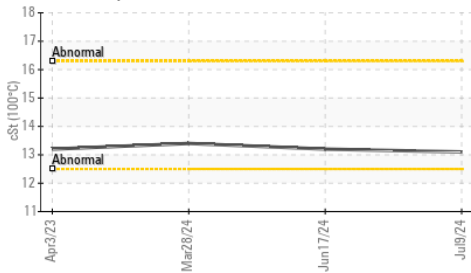
**Base Number**



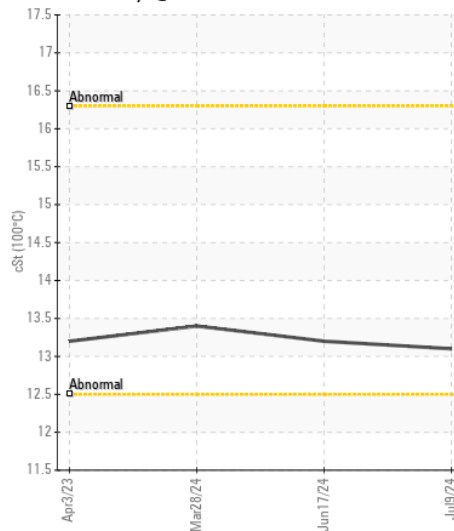
**Non-ferrous Metals**



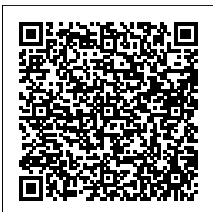
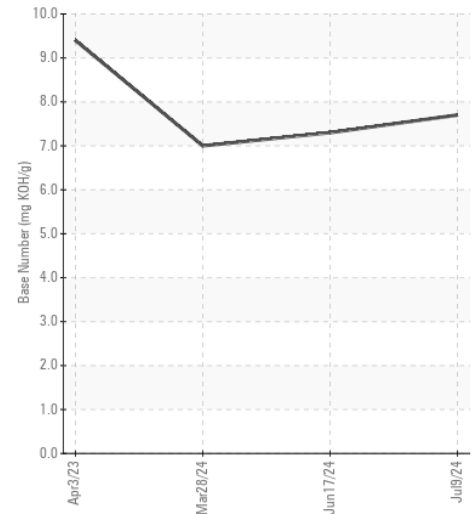
**Viscosity @ 100°C**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0013533  
**Lab Number** : 06237443  
**Unique Number** : 11126277  
**Test Package** : FLEET  
**Received** : 15 Jul 2024  
**Tested** : 16 Jul 2024  
**Diagnosed** : 18 Jul 2024 - Jonathan Hester

**PACIFIC DAWN LLC**  
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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)