

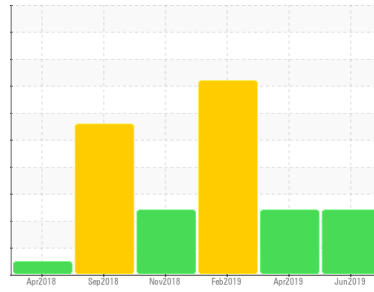


# OIL ANALYSIS REPORT



Area  
**Pleasants Construction**  
 Machine Id  
**JOHN DEERE 850K D-165 (S/N 1T0850KXKDE239215)**  
 Component  
**Left Final Drive**  
 Fluid  
**CASTROL TRANS C 50 (--- GAL)**

Sample Rating Trend



## DIAGNOSIS

### Recommendation

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

### Fluid Condition

The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0354714</b>	WC0345628	WC0324024
Sample Date	Client Info		<b>05 Jun 2019</b>	29 Apr 2019	28 Feb 2019
Machine Age	hrs	Client Info	<b>7284</b>	7073	6806
Oil Age	hrs	Client Info	<b>211</b>	267	275
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status			<b>ABNORMAL</b>	ABNORMAL	SEVERE

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.075	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >750	<b>228</b>	152	532
Chromium	ppm	ASTM D5185m >9	<b>2</b>	1	4
Nickel	ppm	ASTM D5185m	<b>1</b>	<1	4
Titanium	ppm	ASTM D5185m	<b>2</b>	1	9
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >40	<b>20</b>	17	122
Lead	ppm	ASTM D5185m >15	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m >40	<b>&lt;1</b>	<1	0
Tin	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Antimony	ppm	ASTM D5185m	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>4</b>	3	12
Barium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Manganese	ppm	ASTM D5185m	<b>2</b>	1	6
Magnesium	ppm	ASTM D5185m	<b>24</b>	20	36
Calcium	ppm	ASTM D5185m	<b>3189</b>	2990	3393
Phosphorus	ppm	ASTM D5185m	<b>684</b>	639	695
Zinc	ppm	ASTM D5185m	<b>842</b>	809	890
Sulfur	ppm	ASTM D5185m	<b>9766</b>	11284	10085

## CONTAMINANTS

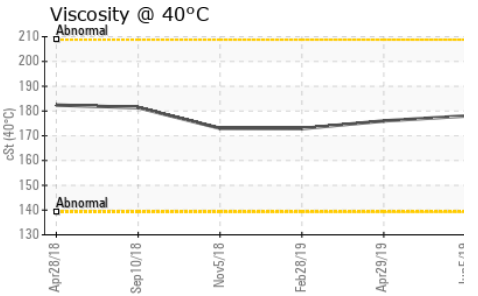
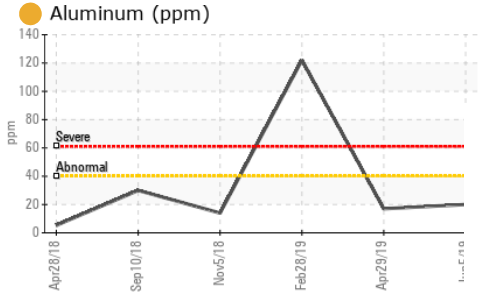
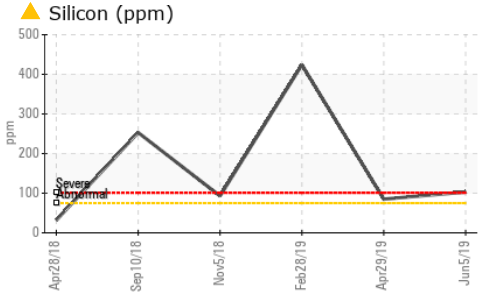
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	<b>103</b>	85	424
Sodium	ppm	ASTM D5185m >51	<b>2</b>	2	9
Potassium	ppm	ASTM D5185m >20	<b>6</b>	6	37

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	LIGHT	MODER
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
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 >0.075	<b>NEG</b>	NEG	0.2%
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG



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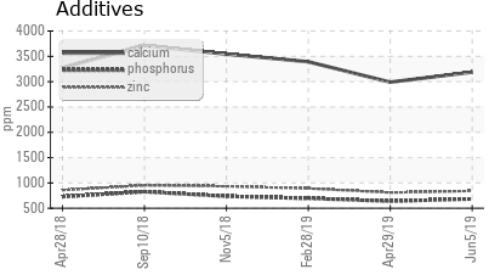
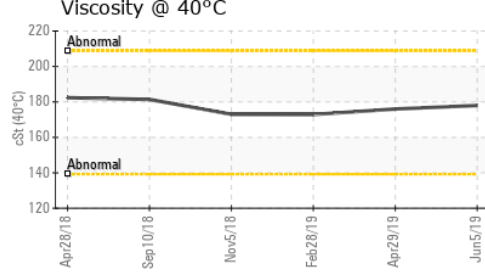
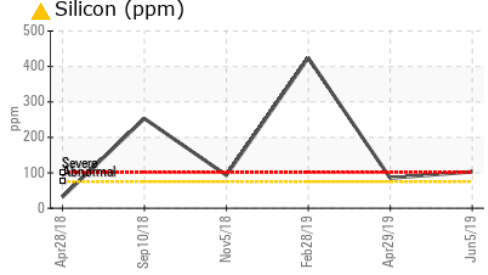
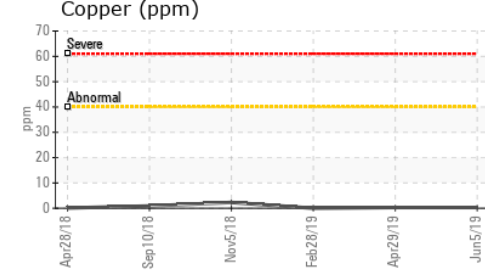
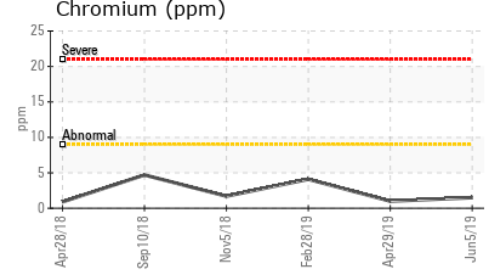
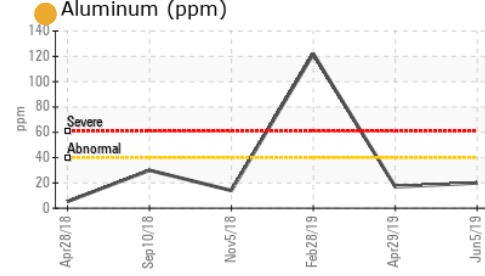
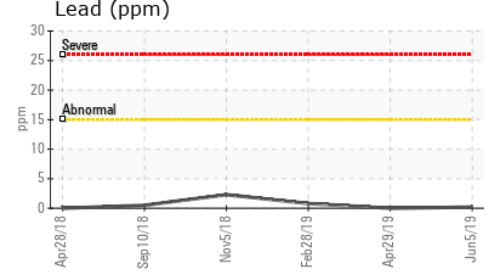
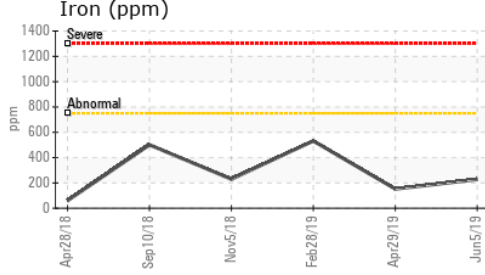


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	<b>178</b>	176	172.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color				no image	no image	no image
Bottom				no image	no image	no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0354714  
**Lab Number** : 04731096  
**Unique Number** : 8627875  
**Test Package** : MOB 1

**Received** : 10 Jun 2019  
**Tested** : 11 Jun 2019  
**Diagnosed** : 11 Jun 2019 - Don Baldrige

**PLEASANT CONSTRUCTION INC**  
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 CLARKSBURG, MD  
 US 20871  
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 F:

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)