

# **OIL ANALYSIS REPORT**

## Area OAKDALE Machine Id JOHN DEERE 646

Transmission Fluid {not provided} (--- GAL)

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

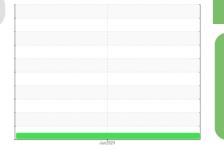
All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the fluid.

#### Fluid Condition

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



Sample Rating Trend



NORMAL

Machine Age     hrs     Client Info     2497         Oil Age     hrs     Client Info     0         Sample Status     Imit/base     NORMAL         CONTAMINATION     method     Imit/base     current     history1     history2       Water     WC Method     >0.075     NEG         WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >61     30         Chromium     ppm     ASTM D5185m     0          Nickel     ppm     ASTM D5185m     20     5         Aluminum     ppm     ASTM D5185m     >9     0         Aduminum     ppm     ASTM D5185m     3.0          Aduminum     ppm     ASTM D5185m     3.0 <tr< th=""><th>SAMPLE INFORM</th><th>MATION</th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></tr<>	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age     hrs     Client Info     2497         Oil Age     hrs     Client Info     0         Sample Status     Image     N/A         CONTAMINATION     method     Imit/base     current     history1        Wear     WC Method     >0.075     NEG         WEAR METALS     method     Imit/base     current     history1        WEAR METALS     method     Imit/base     current     history1        Tron     ppm     ASTM D5185m     >61     30         Trainium     ppm     ASTM D5185m     >10     0         Silver     ppm     ASTM D5185m     >20     0         Cadadum     ppm     ASTM D5185m     >30     0         Cadadum     ppm     ASTM D5185m     >30     0         Cadadum	Sample Number		Client Info		PCA0127659		
Oli Age     hrs     Client Info     0         Oil Changed     Client Info     N/A         Sample Status     Client Info     N/A         CONTAMINATION     method     limit/base     current     history1     history2       Water     WC Method     >0.075     NEG         CONTAMINATION     method     limit/base     current     history1     history2       Water     WC Method     >0.075     NEG         Chromium     ppm     ASTM D5185m     >10     0         Nickel     ppm     ASTM D5185m     0          Aluminum     ppm     ASTM D5185m     0          Aluminum     ppm     ASTM D5185m     10          Adaminum     ppm     ASTM D5185m     0          Adaminum     ppm <th>Sample Date</th> <th></th> <th>Client Info</th> <th></th> <th>24 Jun 2024</th> <th></th> <th></th>	Sample Date		Client Info		24 Jun 2024		
Oil Changed     Client Info     N/A         Sample Status     Image of the status <thi< th=""><th>Machine Age</th><th>hrs</th><th>Client Info</th><th></th><th>2497</th><th></th><th></th></thi<>	Machine Age	hrs	Client Info		2497		
Sample Status     NORMAL         CONTAMINATION     method     limil/base     current     history1     history2       Water     WC Method     >0.075     NEG         WEAR METALS     method     limil/base     current     history1     history2       Iron     ppm     ASTM D5185m     >61     30         Nickel     ppm     ASTM D5185m     0          Silver     ppm     ASTM D5185m     0          Agminium     ppm     ASTM D5185m     >20     5         Lead     ppm     ASTM D5185m     >20          Vanadium     ppm     ASTM D5185m     >3     0         Agminum     ppm     ASTM D5185m     0          Cadmium     ppm     ASTM D5185m     0     M	Oil Age	hrs	Client Info		0		
CONTAMINATION     method     limit/base     current     history1     history2       Water     WC Method     >0.075     NEG         WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM 05185m     >61     30         Nickel     ppm     ASTM 05185m     >61     0         Nickel     ppm     ASTM 05185m     0          Auminum     ppm     ASTM 05185m     >20     5         Auminum     ppm     ASTM 05185m     >20     5         Auminum     ppm     ASTM 05185m     0         Agenoticity     ASTM 05185m     0         ASTM 05185m     0          ASTM 05185m     0          ASTM 05185m     0	Oil Changed		Client Info		N/A		
Water     WC Method     >0.075     NEG         WEAR METALS     method     limit/base     current     history1     history2       Ion     ppm     ASTM D5185m     >61     30         Nickel     ppm     ASTM D5185m     >10     0         Nickel     ppm     ASTM D5185m     0          Silver     ppm     ASTM D5185m     >20     5         Lead     ppm     ASTM D5185m     >20     50         Copper     ppm     ASTM D5185m     >100     30         Vanadium     ppm     ASTM D5185m     0          ADDITIVES     method     Imit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0         Magnaganese     ppm     ASTM D5185m     102 <t< th=""><th>Sample Status</th><th></th><th></th><th></th><th>NORMAL</th><th></th><th></th></t<>	Sample Status				NORMAL		
WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >61     30         Chromium     ppm     ASTM D5185m     0         Nickel     ppm     ASTM D5185m     0         Nickel     ppm     ASTM D5185m     0         Aluminum     ppm     ASTM D5185m     >0         Aluminum     ppm     ASTM D5185m     >9     0         Lead     ppm     ASTM D5185m     >9     0         Vanadium     ppm     ASTM D5185m     0          ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0         Addeinum     ppm     ASTM D5185m     0         Magnagaine     ppm	CONTAMINATI	ON	method	limit/base	current	history1	history2
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Nickel     ppm     ASTM D5185m     0         Titanium     ppm     ASTM D5185m     0         Silver     ppm     ASTM D5185m     0         Aluminum     ppm     ASTM D5185m     >20     5         Lead     ppm     ASTM D5185m     >20     0         Copper     ppm     ASTM D5185m     >100     30         Copper     ppm     ASTM D5185m     >3     0         Cadmium     ppm     ASTM D5185m     0          ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     102         Magnesium     ppm     ASTM D5185m     1070         Magnesium     ppm     ASTM D5185m     1070         Sulfur     ppm </th <th>Iron</th> <th>ppm</th> <th>ASTM D5185m</th> <th>&gt;61</th> <th>30</th> <th></th> <th></th>	Iron	ppm	ASTM D5185m	>61	30		
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Silver     ppm     ASTM D5185m     >20     5         Aluminum     ppm     ASTM D5185m     >20     5         Lead     ppm     ASTM D5185m     >9     0         Copper     ppm     ASTM D5185m     >100     30         Vanadium     ppm     ASTM D5185m     0          Cadmium     ppm     ASTM D5185m     0          ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     10         Magnesium     ppm     ASTM D5185m     0         Magnesium     ppm     ASTM D5185m     102         Calcium     ppm     ASTM D5185m     1070         Sulfur     ppm     ASTM D5185m     1070 <t< th=""><th>Nickel</th><th>ppm</th><th>ASTM D5185m</th><th></th><th>0</th><th></th><th></th></t<>	Nickel	ppm	ASTM D5185m		0		
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Copper     ppm     ASTM D5185m     >100     30         Tin     ppm     ASTM D5185m     >3     0         Vanadium     ppm     ASTM D5185m     0         Cadmium     ppm     ASTM D5185m     0         ADDITIVES     method     limit/base     current     history1     ristory2       Boron     ppm     ASTM D5185m     0         Malybdenum     ppm     ASTM D5185m     0         Magnesse     ppm     ASTM D5185m     102         Magnesium     ppm     ASTM D5185m     1070         Calcium     ppm     ASTM D5185m     1325         Sulfur     ppm     ASTM D5185m     20     6         Solium     ppm     ASTM D5185m     >20     6         VISUAL     meth	Aluminum	ppm	ASTM D5185m	>20	5		
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SulfurppmASTM D5185m4260CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>215SodiumppmASTM D5185m>304PotassiumppmASTM D5185m>206VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiltscalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNORMLNORMLAppearancescalar*VisualNORMLNORMLCodorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNORMLNEG	Phosphorus	ppm	ASTM D5185m		1070		
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PotassiumppmASTM D5185m>206VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNORMLNORMLAppearancescalar*VisualNORMLNORMLCodorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.075NEG	Sodium		ASTM D5185m	>30	4		
White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.075NEG	Potassium		ASTM D5185m	>20	6		
Yellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.075NEG	VISUAL		method	limit/base	current	history1	history2
Precipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.075NEG	White Metal	scalar	*Visual	NONE	NONE		
Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.075NEG	Yellow Metal	scalar	*Visual	NONE	NONE		
Debrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.075NEG	Precipitate	scalar	*Visual	NONE	NONE		
Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.075NEG	Silt	scalar	*Visual	NONE	NONE		
Appearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.075NEG	Debris	scalar	*Visual	NONE	NONE		
Odor     scalar     *Visual     NORML     NORML         Emulsified Water     scalar     *Visual     >0.075     NEG	Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.075 NEG	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
Free Water scalar *Visual NEG	Emulsified Water	scalar	*Visual	>0.075	NEG		
	Free Water	scalar	*Visual		NEG		

Contact/Location: S MCHENRY - CENOAK



# **OIL ANALYSIS REPORT**



Contact/Location: S MCHENRY - CENOAK