

Store 6 - Ashland [148188] Machine Id JOHN DEERE 331G 1T0331GMANF430770

Component Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (3 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0044730		
	Sample Date		Client Info		21 Feb 2024		
	Machine Age	hrs	Client Info		1214		
	Oil Age	hrs	Client Info		614		
	Filter Age	hrs	Client Info		614		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
	Iron		ASTM D5185m	<u>51</u>	40		
WEAR		ppm	ASTM D5185m		1		
The copper level is abnormal. All other component wear rates are normal.	Chromium Nickel	ppm					
		ppm	ASTM D5185m	C<	<1		
	Titanium	ppm	ASTM D5185m	0	<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		7		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		A 35		
	Tin	ppm	ASTM D5185m	>4	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	A 22		
Elemental level of silicon (Si) above normal indicating ingress of seal material.	Potassium	ppm	ASTM D5185m	>20	2		
	eal Fuel		WC Method		<1.0		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.5		
	Nitration	Abs/cm	*ASTM D7624	>20	11.9		
	Sulfation	Abs/.1mm	*ASTM D7415		27.8		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water		*Visual	>0.21	NEG		
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Sodium	ppm	ASTM D5185m	>31	4		
	the Boron	ppm	ASTM D5185m		97		
	Danum	ppm	ASTM D5185m		2		
	Molybdenum	ppm	ASTM D5185m		250		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		872		
	Calcium	ppm	ASTM D5185m		1693		
	Phosphorus	ppm	ASTM D5185m		982		
	Zinc	ppm	ASTM D5185m		1198		
	Sulfur	ppm	ASTM D5185m		2846		
	Oxidation	Abc/1mm	*ASTM D7414	<25	25.8		

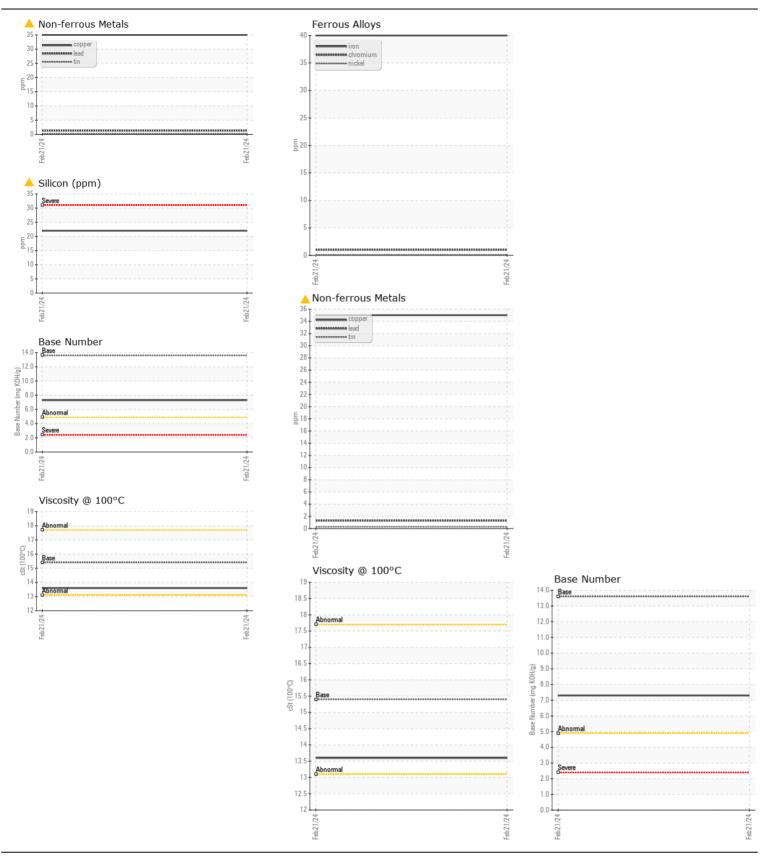
7.3

13.6

Base Number (BN) mg KOH/g ASTM D2896 13.6

ASTM D445 15.4

Visc @ 100°C cSt



LESLIE EQUIPMENT COMPANY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received : 23 Feb 2024 105 TENNIS CENTER DR. : LEC0044730 Lab Number : 06099032 Tested MARIETTA, OH : 26 Feb 2024 Unique Number : 10897262 Diagnosed : 26 Feb 2024 - Don Baldridge US 45750-9765 Test Package : CONST (Additional Tests: TBN) Contact: LEANNE KENDALL Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. KendalLeanne@lec1.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Т: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (740)373-5570