

Store 5 - Cross Lanes JOHN DEERE 332 T00332F123429

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (13 QTS)

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

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All component wear rates are normal.

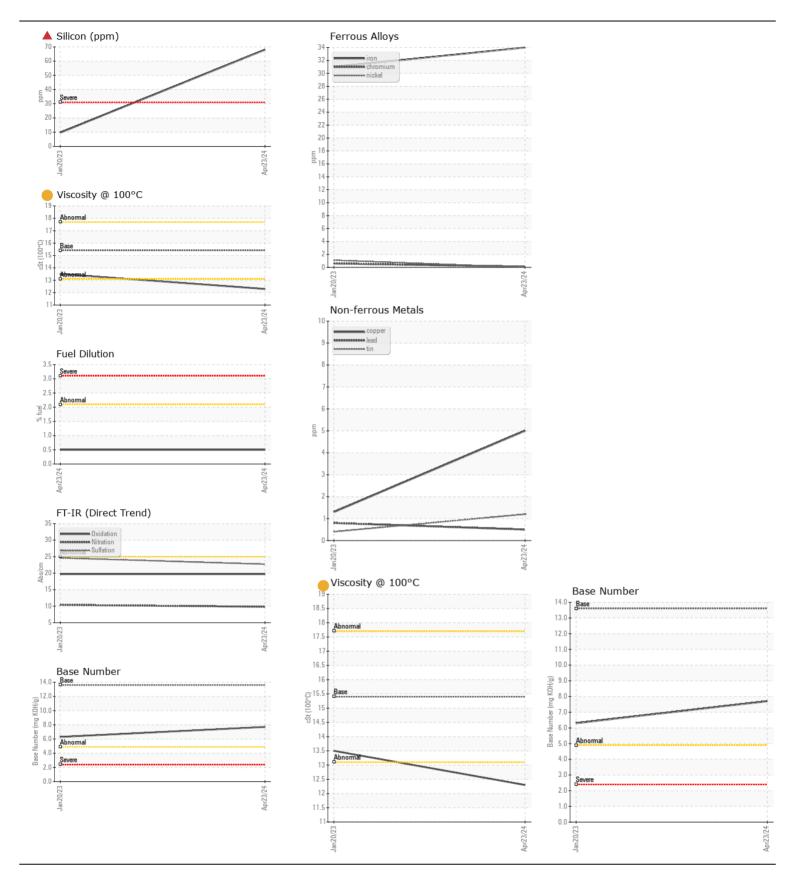
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Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material.

FLU		

The oil viscosity is lower than normal. The oil is no longer serviceable due to the presence of contaminants.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0046538	LEC0035822	
Sample Date		Client Info		23 Apr 2024	20 Jan 2023	
Machine Age	hrs	Client Info		4192	3514	
Oil Age	hrs	Client Info		196	500	
Filter Age	hrs	Client Info		196	0	
Oil Changed		Client Info		Not Changd	Not Changd	
Filter Changed		Client Info		Not Changd	Not Changd	
Sample Status				SEVERE	NORMAL	
Iron	ppm	ASTM D5185m	>51	34	31	
Chromium	ppm	ASTM D5185m	>11	<1	<1	
Nickel	ppm	ASTM D5185m	>5	0	1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	0	<1	
Aluminum	ppm	ASTM D5185m	>31	6	5	
Lead	ppm	ASTM D5185m	>26	<1	<1	
Copper	ppm	ASTM D5185m	>26	5	1	
Tin	ppm	ASTM D5185m	>4	1	<1	
Vanadium	ppm	ASTM D5185m		0	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>!20	6 8	10	
Potassium	ppm	ASTM D5185m	>20	7	17	
Fuel	%	ASTM D3524	>2.1	0.5	<1.0	
Water		WC Method	>0.21	NEG	NEG	
Glycol		WC Method		NEG	NEG	
Soot %	%	*ASTM D7844	>3	0.2	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	9.8	10.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	24.6	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	
Sodium	ppm	ASTM D5185m	>31	14	18	
Boron	ppm	ASTM D5185m		129	106	
Barium	ppm	ASTM D5185m		7	0	
Molybdenum	ppm	ASTM D5185m		148	5	
Manganese	ppm	ASTM D5185m		2	<1	
Magnesium	ppm	ASTM D5185m		681	17	
Calcium	ppm	ASTM D5185m		1616	2092	
Phosphorus	ppm	ASTM D5185m		1045	925	
Zinc	ppm	ASTM D5185m		1225	1112	
Sulfur	ppm	ASTM D5185m		3265	4061	
			~ -	107	19.7	
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.7	19.7	
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 13.6	19.7 7.7	6.3	



LESLIE EQUIPMENT COMPANY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 105 TENNIS CENTER DR. : LEC0046538 : 25 Apr 2024 Lab Number : 06160119 Tested : 29 Apr 2024 MARIETTA, OH Unique Number : 10995542 Diagnosed : 29 Apr 2024 - Sean Felton US 45750-9765 Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, 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. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (740)373-5570

Submitted By: STORE5 - CROSS LANES - NEIL BALL