

Area



[W66272] JOHN DEERE 700K 1T0700KXKHF316028

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. (Customer Sample Comment: W66272)	Sample Number		Client Info		JR0206649	JR0178108	JR0177884
	Sample Date		Client Info		23 Apr 2024	08 Sep 2023	28 Jul 2023
	Machine Age	hrs	Client Info		9954	9553	9377
	Oil Age	hrs	Client Info		401	9180	373
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Not Changd
	Filter Changed		Client Info		Changed	Changed	Not Changd
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>51	20	15	10
	Chromium	ppm	ASTM D5185m	>11	0	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	5	5	3
	Lead	ppm	ASTM D5185m	>26	0	<1	0
	Copper	ppm	ASTM D5185m	>26	0	2	<1
	Tin	ppm	ASTM D5185m	>4	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	7	8	6
OUTAMINATION	Potassium	ppm	ASTM D5185m		<1	1	0
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	,	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624		9.1	9.1	8.5
	Sulfation	Abs/.1mm	*ASTM D7415		21.6	22.2	21.7
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m	>31	2	3	2
	Boron	ppm	ASTM D5185m		240	197	242
	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m		268	257	248
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		864	892	869
	Calcium	ppm	ASTM D5185m		1466	1563	1435
	Phosphorus	ppm	ASTM D5185m		960	890	896
	Zinc	ppm	ASTM D5185m		1135	1126	1074
	Sulfur	ppm	ASTM D5185m		3327	3382	3360
	Oxidation	Abs/.1mm	*ASTM D310311	>25	16.3	16.5	16.0
	Base Number (BN)				8.7	8.1	8.6
	Dase Mulliper (BN)	ing NOR/g	A01101D2030	10.0	0.7	0.1	0.0

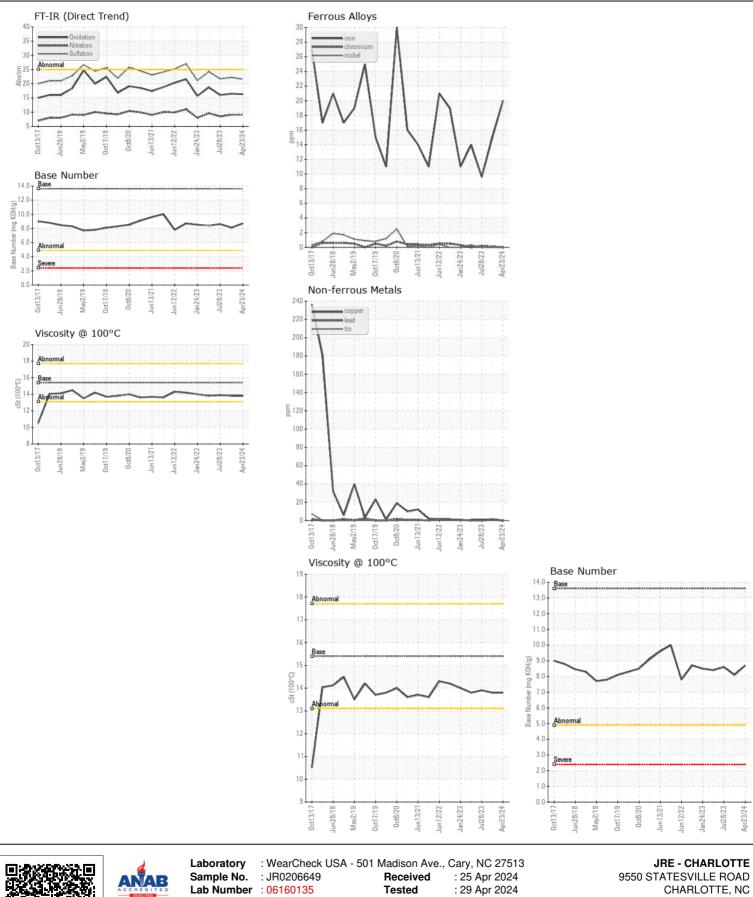
Visc @ 100°C cSt

ASTM D445 15.4

13.8

13.9

13.8



Unique Number : 10995558 Diagnosed : 29 Apr 2024 - Sean Felton Test Package : CONST (Additional Tests: TBN) Contact: CHARLOTTE SHOP Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. myoung@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (704)597-0211 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (704)596-6198

Submitted By: Mike Young - CHARLOTTE SHOP Page 2 of 2

US 28269