

JOHN DEERE 700K 1T0700KXCGF292315

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
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0207858	JR0185027	JR0160566
	Sample Date		Client Info		15 Apr 2024	10 Oct 2023	30 Mar 2023
	Machine Age	hrs	Client Info		10880	10306	9691
	Oil Age	hrs	Client Info		574	615	547
	Filter Age	hrs	Client Info		574	615	547
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR The iron level is abnormal. All other component wear rates are normal.	Iron	ppm	ASTM D5185m	>51	A 84	61	34
	Chromium	ppm	ASTM D5185m		1	1	1
	Nickel	ppm	ASTM D5185m		4	4	2
	Titanium	ppm	ASTM D5185m	20	0	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		6	6	4
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		10	11	8
	Tin	ppm	ASTM D5185m		<1	<1	0
	Vanadium		ASTM D5185m	24	0	<1	<1
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Tellow Metal	Scalai	visuai	NONL		NONL	NONL
CONTAMINATION	Silicon	ppm	ASTM D5185m		11	11	9
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	1	2
	Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.4	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	9.8	9.6	9.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	23.1	23.1
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	2	3
	Boron	ppm	ASTM D5185m		209	197	216
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.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		267	246	244
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m		874	843	756
	Calcium	ppm	ASTM D5185m		1509	1407	1422
	Phosphorus	ppm	ASTM D5185m		930	854	844
	Zinc	ppm	ASTM D5185m		1138	1095	1064
	Sulfur	ppm	ASTM D5185m		3276	2812	3210
	Oxidation	Abs/.1mm	*ASTM D5105111	>25	18.5	17.9	17.5
	Base Number (BN)		ASTM D7414 ASTM D2896		8.5	8.7	8.6
		ing ROH/g	AGTIN D2090	15.0	0.5	0.7	0.0

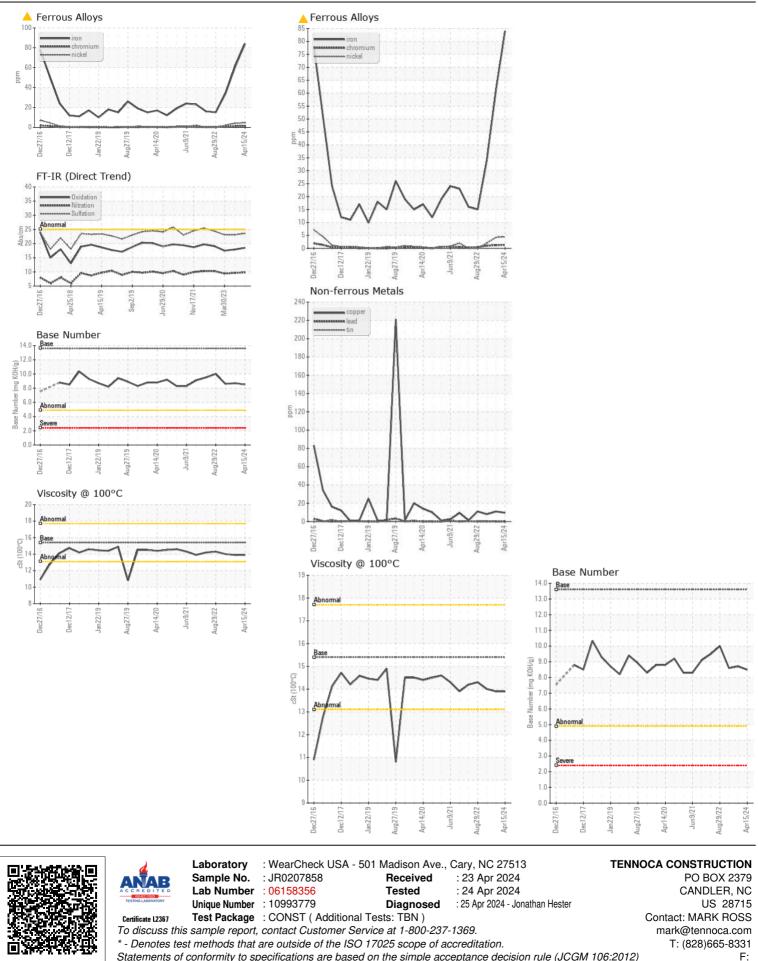
Visc @ 100°C cSt

ASTM D445 15.4

13.9

14.0

13.9



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: MARK ROSS - TENCAN Page 2 of 2