WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Machine Id

JOHN DEERE 711759

Diesel Engine

Fluid

DIESEL ENGINE OIL SAE 15W40 (30 QTS)

DIESEL ENGINE OIL SAE 15W40 (30 QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0193671		
Resample at the next service interval to monitor.	Sample Date		Client Info		18 Dec 2023		
	Machine Age	hrs	Client Info		4321		
	Oil Age	hrs	Client Info		4321		
	Filter Age	hrs	Client Info		4321		
	Oil Changed	0	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>51	10		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1		
	Nickel	ppm	ASTM D5185m	>5	2		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>31	2		
	Lead	ppm	ASTM D5185m	>26	0		
	Copper	ppm	ASTM D5185m	>26	<1		
	Tin	ppm	ASTM D5185m	>4	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		6		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.5		
	Nitration	Abs/cm	*ASTM D7624		7.2		
	Sulfation	Abs/.1mm	*ASTM D7415		21.1		
	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	scalar	*Visual	>0.21	NEG		
FLUID CONDITION	Sodium	nnm	ASTM D5185m	√15 8	1		
FLOID CONDITION	Boron	ppm	ASTM D5185m		219		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		79		
	Manganese	ppm	ASTM D5185m	100	<1		
	Magnesium	ppm	ASTM D5185m	450	350		
	Calcium		ASTM D5185m		1219		
	Phosphorus	ppm	ASTM D5185m		947		
	Zinc		ASTM D5185m		1169		
	Sulfur	ppm	ASTM D5185m		2912		
	Oxidation	ppm Abs/.1mm	*ASTM D7414		14.5		
	Base Number (BN)		ASTM D2896		6.5		
	Visc @ 100°C	cSt	ASTM D2696 ASTM D445		14.2		
	visc @ 100 C	631	ASTIVI D443	14.4	14.2		







Laboratory Sample No.

: JR0193671 Lab Number : 06040494

Unique Number : 10795723

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

Diagnosed Test Package : CONST (Additional Tests: TBN)

: 21 Dec 2023

: 20 Dec 2023

: 21 Dec 2023 - Don Baldridge

MILLS BROTHERS LOGGING 1035 BIDDLE RD DOVER, NC US 28526

Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

T: F: