WEAR CONTAMINATION FLUID CONDITION

ABNORMAL NORMAL NORMAL

Area

[W9094]

JOHN DEERE 410L 1T0410LXKPF435467

Diesel Engine

{not provided} (10 GAL)

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. (Customer Sample Comment: W9094)	Sample Number		Client Info		JR0197280		
	Sample Date		Client Info		25 Jun 2024		
	Machine Age	hrs	Client Info		541		
	Oil Age	hrs	Client Info		541		
	Filter Age	hrs	Client Info		541		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>51	27		
	Chromium	ppm	ASTM D5185m		<1		
The copper level is abnormal. All other metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m		9		
	Lead	ppm	ASTM D5185m		4		
	Copper	ppm	ASTM D5185m		<u>^</u> 99		
	Tin	ppm	ASTM D5185m	>4	2		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		15		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		5		
	Fuel	%	ASTM D3524		0.0		
	Water		WC Method	>0.21	NEG		
	Glycol	0/	WC Method	0	NEG		
	Soot %	%	*ASTM D7844		0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	8.5		
	Sulfation	Abs/.1mm	*ASTM D7415		22.7		
	Silt Debris	scalar	*Visual *Visual	NONE	NONE NONE		
	Sand/Dirt	scalar scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water		*Visual	>0.21	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	10		
The DN regult indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		213		
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		6		
	Molybdenum	ppm	ASTM D5185m		261		
	Manganese	ppm	ASTM D5185m		5		
	Magnesium	ppm	ASTM D5185m		893		
	Calcium	ppm	ASTM D5185m		1503		
	Phosphorus	ppm	ASTM D5185m		951		
	Zinc	ppm	ASTM D5185m		1114		
	Sulfur	ppm	ASTM D5185m		3392		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1		
	Base Number (BN)		ASTM D2896 ASTM D445		8.7 10.2		
	Visc @ 100°C	cSt					





Certificate L2367

Laboratory Sample No.

Lab Number : 06220831 Unique Number: 11099028

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0197280 Received : 26 Jun 2024 **Tested**

: 28 Jun 2024 Diagnosed

: 28 Jun 2024 - Jonathan Hester Test Package: MOBCE (Additional Tests: FuelDilution, PercentFuel, TBN)

JRE - HOPE MILLS/FAYETTEVILLE

5039 HWY 301 SOUTH HOPE MILLS, NC US 28348

Contact: FAYETTEVILLE SHOP stephen.mullis@jamesriverequipment.com;canastasio@wearcheck.com

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)

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