

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ATTENTION

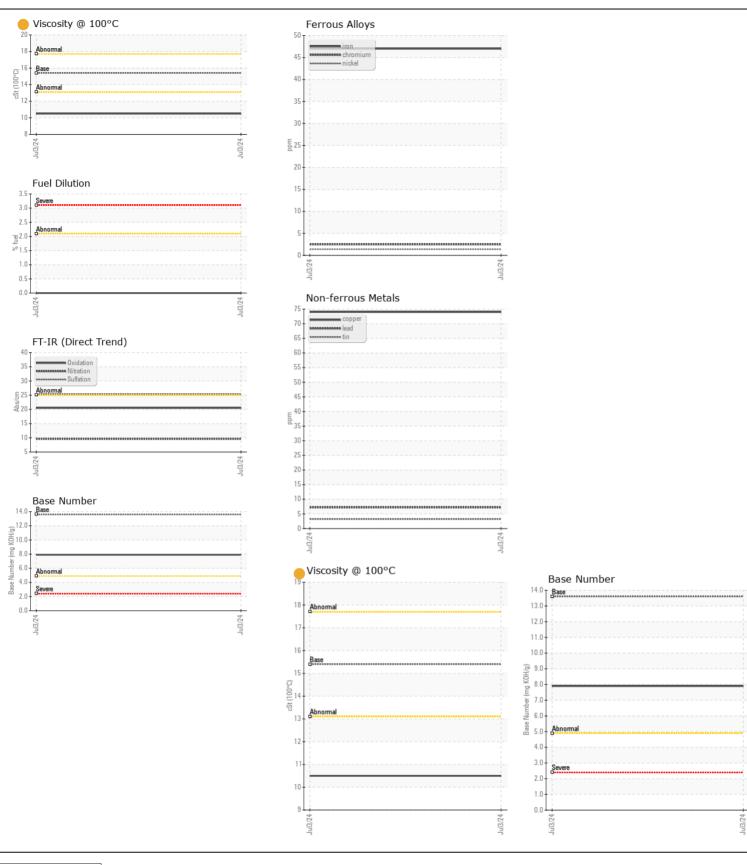


Machine Id JOHN DEERE 130G 1FF130GXJNF043206

Diesel Engine

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

Sample Number Client Info WE007871	JOHN DEERE ENGINE OIL PL	US 50 II 15W	40 (- QTS)				
Sample Number Client Info Sample Number Sample Numbe	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
## As a component breaking in. ## As a component breaking in.	Ni and Changhan and the Property of a complete beauty and a December	Sample Number		Client Info		WE0007871		
Machine Age hrs Client Info 0	Oil and filter change at the time of sampling has been noted. Hesample at the next service interval to monitor.	Sample Date		Client Info		03 Jul 2024		
Filter Age brs client Info Changed Changed Client Info Changed Changed Client Info Changed Chang		Machine Age	hrs	Client Info		497		
Coll Changed Client Info Changed Chang		Oil Age	hrs	Client Info		0		
Filter Changed Sample Status		Filter Age	hrs	Client Info		0		
Filter Changed Sample Status		Oil Changed		Client Info		Changed		
VEAR		Filter Changed		Client Info		_		
Chromium ppm ASTM D5185m 51 2		_				_		
Chromium ppm ASTM D5185m 51 2	/FAB	Iron	nnm	ASTM D5185m	\51	47		
Nickel ppm ASTM D5185m >5 1 Silver ppm ASTM D5185m >5 1 Aluminum ppm ASTM D5185m >3 <1 Aluminum ppm ASTM D5185m >3 <1 Aluminum ppm ASTM D5185m >3 <1 Aluminum ppm ASTM D5185m >6 7 Aluminum ppm ASTM D5185m >6 7 Aluminum ppm ASTM D5185m >26 7 ASTM D5185m >6	WEAR							
Titanium ppm	Metal levels are typical for a new component breaking in.							
Silver ppm ASTM D5185m >31 12					75			
Aluminum ppm ASTM D5185m >31 12					. 0			
Lead								
Copper								
Tin								
Vanadium								
White Metal Scalar *Visual NONE NO					>4			
Vellow Metal Scalar Visual NONE NONE Silicon ppm ASTM 05186m >22 14 Potassium ppm ASTM 05186m >20 6 Potassium ppm ASTM 05185m >30 0.4 Potassium ppm ASTM 05185m >31 8 Potassium ppm ASTM 05185m >31 936 Potassium ppm ASTM 05185m >31 936 -					NONE			
Silicon ppm ASTM D5185m >22 14						_		
Potassium ppm ASTM D5185m >20 6	<u></u>	Yellow Metal	scalar	*Visual	NONE	NONE		
Fuel % ASTM D3524 2-1 0.0 Water WC Method NEG NEG Soot % % 'ASTM D7844 3 0.4 Sulfation Abs/mm 'ASTM D7845 2-20 9.6 Sulfation Abs/mm 'ASTM D7854 2-20 9.6 Sulfation Abs/mm 'ASTM D7845 2-20 9.6 Sulfation Abs/mm 'ASTM D7845 2-20 9.6 Sulfation Abs/mm 'ASTM D785 NONE NONE Sand/Dirt scalar 'Visual NONE NONE Appearance scalar 'Visual NORML NORML NORML Appearance scalar 'Visual NORML NO	CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	14		
Water	Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	6		
Water WC Method So.21 NEG		Fuel	%	ASTM D3524	>2.1	0.0		
Soot %		Water		WC Method	>0.21	NEG		
Nitration		Glycol		WC Method		NEG		
Sulfation Abs/.tmm *ASTM D7415 >30 25.4 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual NORML NORML NORML The oil viscosity is lower than normal. The BN result indicates that here is suitable alkalinity remaining in the oil. Confirm oil type.		Soot %	%	*ASTM D7844	>3	0.4		
Silt scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NORML NORML Some Some NORML Some So		Nitration	Abs/cm	*ASTM D7624	>20	9.6		
Debris Scalar *Visual NONE NONE NONE Sand/Dirt Scalar *Visual NONE NORML		Sulfation	Abs/.1mm	*ASTM D7415	>30	25.4		
Sand/Dirt Scalar *Visual NONE NONE NORML		Silt	scalar	*Visual	NONE	NONE		
Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORM		Debris	scalar	*Visual	NONE	NONE		
Appearance Scalar *Visual NORML NORML NORML Emulsified Water Scalar *Visual NORML		Sand/Dirt						
Codor Scalar *Visual NORML N		Appearance	scalar	*Visual	NORML	NORML		
Emulsified Water scalar *Visual >0.21 NEG		• •						
Boron ppm ASTM D5185m 164 Barium ppm ASTM D5185m 1 Molybdenum ppm ASTM D5185m 281 Manganese ppm ASTM D5185m 5 Magnesium ppm ASTM D5185m 940 Calcium ppm ASTM D5185m 1572 Phosphorus ppm ASTM D5185m 936 Zinc ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 1210						_		
Boron ppm ASTM D5185m 164 Barium ppm ASTM D5185m 1 Molybdenum ppm ASTM D5185m 281 Manganese ppm ASTM D5185m 5 Magnesium ppm ASTM D5185m 940 Calcium ppm ASTM D5185m 1572 Phosphorus ppm ASTM D5185m 936 Zinc ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 1210	LUID CONDITION	Sodium	nnm	ASTM D5185m	>31	8		
Barium ppm ASTM D5185m 1 Molybdenum ppm ASTM D5185m 281 Magnesium ppm ASTM D5185m 5 Magnesium ppm ASTM D5185m 940 Calcium ppm ASTM D5185m 1572 Phosphorus ppm ASTM D5185m 936 Zinc ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 1210	LOID CONDITION				701			
Molybdenum ppm ASTM D5185m	The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.							
Manganese ppm ASTM D5185m 5 Magnesium ppm ASTM D5185m 940 Calcium ppm ASTM D5185m 1572 Phosphorus ppm ASTM D5185m 936 Zinc ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 3188 Oxidation Abs/.1mm *ASTM D7414 >25 20.5 Base Number (BN) mg KOH/g ASTM D2896 13.6 7.9								
Magnesium ppm ASTM D5185m 940 Calcium ppm ASTM D5185m 1572 Phosphorus ppm ASTM D5185m 936 Zinc ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 3188 Oxidation Abs/.1mm *ASTM D7414 >25 20.5 Base Number (BN) mg KOH/g ASTM D2896 13.6 7.9		•						
Calcium ppm ASTM D5185m 1572 Phosphorus ppm ASTM D5185m 936 Zinc ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 3188 Oxidation Abs/.1mm *ASTM D7414 >25 20.5 Base Number (BN) mg KOH/g ASTM D2896 13.6 7.9		-						
Phosphorus ppm ASTM D5185m 936 Zinc ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 3188 Oxidation Abs/.1mm *ASTM D7414 >25 20.5 Base Number (BN) mg KOH/g ASTM D2896 13.6 7.9		_						
Zinc ppm ASTM D5185m 1210 Sulfur ppm ASTM D5185m 3188 Oxidation Abs/.1mm *ASTM D7414 >25 20.5 Base Number (BN) mg KOH/g ASTM D2896 13.6 7.9								
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Oxidation Abs/.1mm *ASTM D7414 >25 20.5 Base Number (BN) mg KOH/g ASTM D2896 13.6 7.9								
Base Number (BN) mg KOH/g ASTM D2896 13.6 7.9					0.5			
Visc @ 100°C cSt ASTM D445 15.4 10.5		, ,						
		VISC @ 100°C	cSt	ASTM D445	15.4	10.5		







Report Id: WARNOR [WUSCAR] 06229944 (Generated: 07/12/2024 13:48:46) Rev: 1

Laboratory Sample No.

: WE0007871 Lab Number : 06229944 Unique Number : 11113437

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

: 08 Jul 2024 : 11 Jul 2024 Diagnosed

: 11 Jul 2024 - Jonathan Hester Test Package: CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

WARRIOR TRACTOR AND EQUIPMENT - NORTHPORT P.O. BOX 412 NORTHPORT, AL

US 35476 Contact: PAMELA CLARK pamela@warriortractor.com

T: (205)339-0300

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)