

WEAR CONTAMINATION **FLUID CONDITION**

SEVERE SEVERE ATTENTION

Store 8 - Pikeville

JOHN DEERE 50D E-50 (S/N FF050DX270596)

Right Gearbox

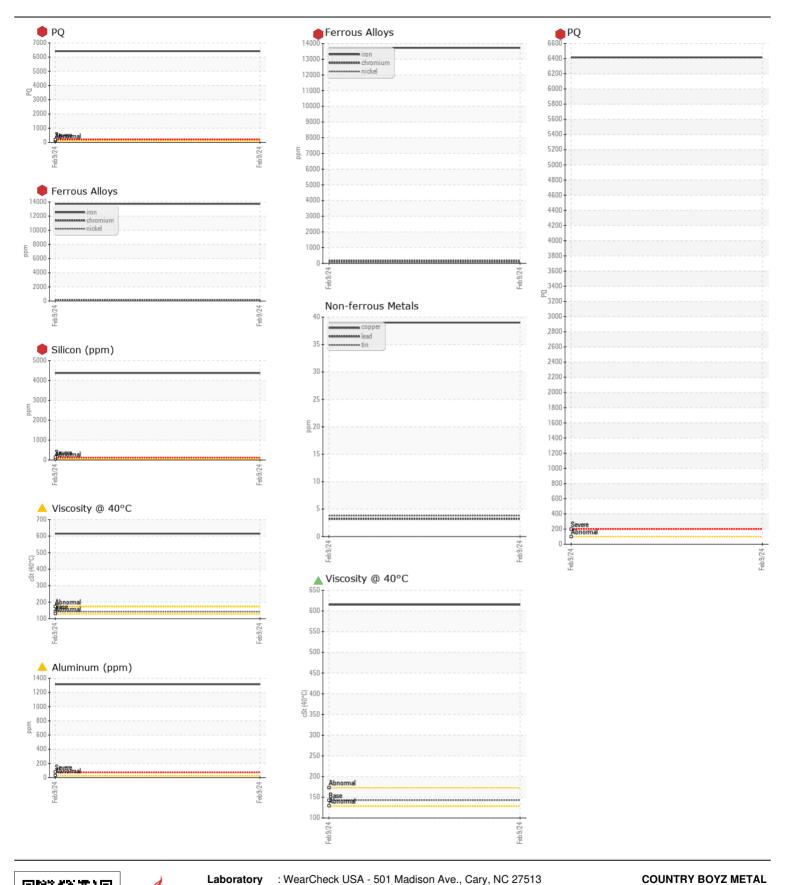
GEAR OIL SAE 80W90 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.	Sample Number		Client Info		LEC0044161		
	Sample Date		Client Info		09 Feb 2024		
	Machine Age	hrs	Client Info		1825		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		N/A		
	Sample Status				SEVERE		
WEAR	PQ		ASTM D8184		6416		
Gear wear is indicated.	Iron	ppm	ASTM D5185m	>200	13727		
	Chromium	ppm	ASTM D5185m	>10	148		
	Nickel	ppm	ASTM D5185m	>10	3 5		
	Titanium	ppm	ASTM D5185m		81		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>25	1314		
	Lead	ppm	ASTM D5185m	>50	3		
	Copper	ppm	ASTM D5185m	>200	39		
	Tin	ppm	ASTM D5185m	>10	4		
	Vanadium	ppm	ASTM D5185m		3		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	4374		
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.	Potassium	ppm	ASTM D5185m	>20	443		
	Water		WC Method	>0.2	NEG		
	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	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>170	90		
The oil viscosity is higher than normal. The oil is no longer serviceable as a result of the abnormal and/or severe wear.	Boron	ppm	ASTM D5185m	400	67		
	Barium	ppm	ASTM D5185m		13		
	Molybdenum	ppm	ASTM D5185m	12	20		
	Manganese	ppm	ASTM D5185m		119		
	Magnesium	ppm	ASTM D5185m		120		
	Calcium	ppm	ASTM D5185m		345		
	Phosphorus	ppm	ASTM D5185m		255		
	Zinc	ppm	ASTM D5185m		190		
	Sulfur	ppm	ASTM D5185m	22500	28806		

Visc @ 40°C

cSt

ASTM D445 143

615





Laboratory Sample No. Unique Number : 10876505

Lab Number : 06089060

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0044161

Received Tested Diagnosed

: 14 Feb 2024 : 15 Feb 2024

: 15 Feb 2024 - Sean Felton

P.O. BOX 2442 PIKEVILLE, KY US 41502 Contact: DAVID ROBINSON

Contact/Location: DAVID ROBINSON - COUPIK

Test Package : CONST (Additional Tests: PQ) 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) F: (606)433-0289

T: (606)433-1088