

#### Machine Id JOHN DEERE 38-20 Component Rear Transmission (Manual) Fluid PETRO CANADA DURATRAN (--- LTR)

## RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as PETRO CANADA DURATRAN, however, a fluid match indicates that this fluid is SAE 20 Transmission/Drive Train Oil. Please confirm the fluid type and grade on your next sample.

#### **WEAR**

All component wear rates are normal.

### CONTAMINATION

There is no indication of any contamination in the fluid.

# **FLUID CONDITION**

Viscosity of sample indicates oil is within SAE 20 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the fluid is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0067888	PC0075731	
Sample Date		Client Info		05 Feb 2024	20 Jun 2023	
Machine Age	hrs	Client Info		8184	4343	
Oil Age	hrs	Client Info		0	0	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Not Changd	
Filter Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	ABNORMAL	
				~		
Iron	ppm	ASTM D5185(m)	>200	37	32	
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	
Nickel	ppm	ASTM D5185(m)	>5	0	0	
Titanium	ppm	ASTM D5185(m)		0	<1	
Silver	ppm	ASTM D5185(m)	>7	0	0	
Aluminum	ppm	ASTM D5185(m)	>25	3	3	
Lead	ppm	ASTM D5185(m)	>45	<1	<1	
Copper	ppm	ASTM D5185(m)	>225	6	6	
Tin	ppm	ASTM D5185(m)	>10	0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
White Metal	scalar	Visual*	NONE	NONE	NONE	
Yellow Metal	scalar	Visual*	NONE	NONE	VLITE	
Silicon	ppm	ASTM D5185(m)	>125	19	20	
Potassium	ppm	ASTM D5185(m)	>20	2	2	
Water	ppiii	WC Method	>0.1	2 NEG	NEG	
Silt	scalar	Visual*	NONE	NONE	NONE	
Debris	scalar	Visual*	NONE	NONE	NONE	
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
Appearance	scalar	Visual*	NORML	NORML	NORML	
Odor	scalar	Visual*	NORML	NORML	NORML	
Emulsified Water	scalar	Visual*	>0.1		NEG	
	Scala	visuai	>0.1	NEG	NLG	
Sodium	ppm	ASTM D5185(m)		16	20	
Boron	ppm	ASTM D5185(m)	110	5	7	
Barium	ppm	ASTM D5185(m)	0.0	<1	1	
Molybdenum	ppm	ASTM D5185(m)	0.0	<1	<1	
Manganese	ppm	ASTM D5185(m)	1	<1	<1	
Magnesium	ppm	ASTM D5185(m)	13	79	83	
Calcium	ppm	ASTM D5185(m)	3610	2937	2971	
Phosphorus	ppm	ASTM D5185(m)	1192	946	1002	
Zinc	ppm	ASTM D5185(m)	1455	845	944	
Sulfur	ppm	ASTM D5185(m)	2641	3099	2899	
Visc @ 40°C	cSt	ASTM D7279(m)	55.14	▲ 86.5	▲ 41.1	
Visc @ 100°C	cSt	ASTM D7279(m)	9.38	▲ 6.7	▲ 6.7	
	001		0.00		0.1	

Viscosity Index (VI) Scale ASTM D2270\* 153

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