

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Area Tractors **UTL004**

Component **Front Right Wheel Hub** PETRO CANADA TRAXON 80W90 (--- LTR)

DIAGNOSIS

Recommendation

We advise that you check all areas where contaminants can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

Chromium and copper and iron, nickel and lead ppm levels are severe. PQ levels are severe. Aluminum ppm levels are noted. Tin and titanium ppm levels are marginal. Gear wear is indicated.

Contamination

Silicon ppm levels are abnormally high. Insufficient sample was received to conduct all the routine laboratory tests. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress.

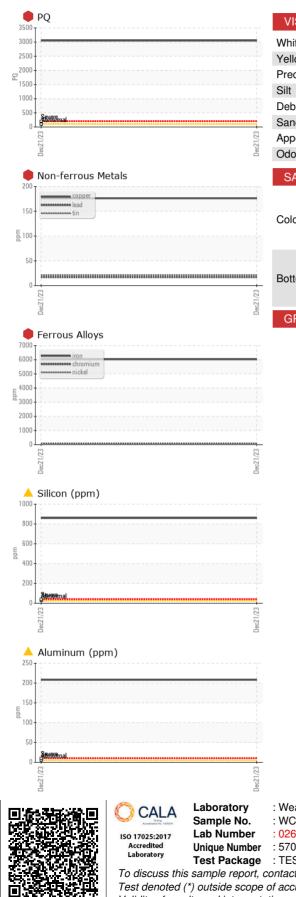
Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		wc		
Sample Date		Client Info		21 Dec 2023		
Machine Age	hrs	Client Info		8363		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		e 3051		
Iron	ppm	ASTM D5185(m)	>500	6027		
Chromium	ppm	ASTM D5185(m)	>8	62		
Nickel	ppm	ASTM D5185(m)	>5	🛑 18		
Titanium	ppm	ASTM D5185(m)		1 8		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>5	208		
Lead	ppm	ASTM D5185(m)	>5	• 17		
Copper	ppm	ASTM D5185(m)	>50	• 176		
Tin	ppm	ASTM D5185(m)		<u> </u>		
Antimony	ppm	ASTM D5185(m)	>5	6		
Vanadium	ppm	ASTM D5185(m)		<1		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	243	48		
Barium	ppm	ASTM D5185(m)	1	0		
Molybdenum	ppm	ASTM D5185(m)		2		
Manganese	ppm	ASTM D5185(m)		51		
Magnesium	ppm	ASTM D5185(m)	2	91		
Calcium	ppm	ASTM D5185(m)		366		
Phosphorus	ppm	ASTM D5185(m)	987	630		
Zinc	ppm	ASTM D5185(m)		95		
Sulfur	ppm	ASTM D5185(m)	21530	20989		
Lithium	ppm	ASTM D5185(m)		15		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<u> </u>		
Sodium	ppm	ASTM D5185(m)		96		
Potassium	ppm	ASTM D5185(m)	>20	64		



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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	VLITE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color					no image	no image

Color		no image	no image
Bottom		no image	no image

GRAPHS

