

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

50 ANN Component **Diesel Engine** Fluid PETRO CANADA XR 4 SAE 15W40 (--- LTR)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

🔺 Wear

Lead ppm levels are abnormal. Bearing wear is indicated.

Contamination

Fuel content negligible. There is a high concentration of water present in the oil. There is a moderate concentration of dirt present in the oil. Test for glycol is negative. High amount of ingressed dirt has caused abrasive wear to the component.

Fluid Condition

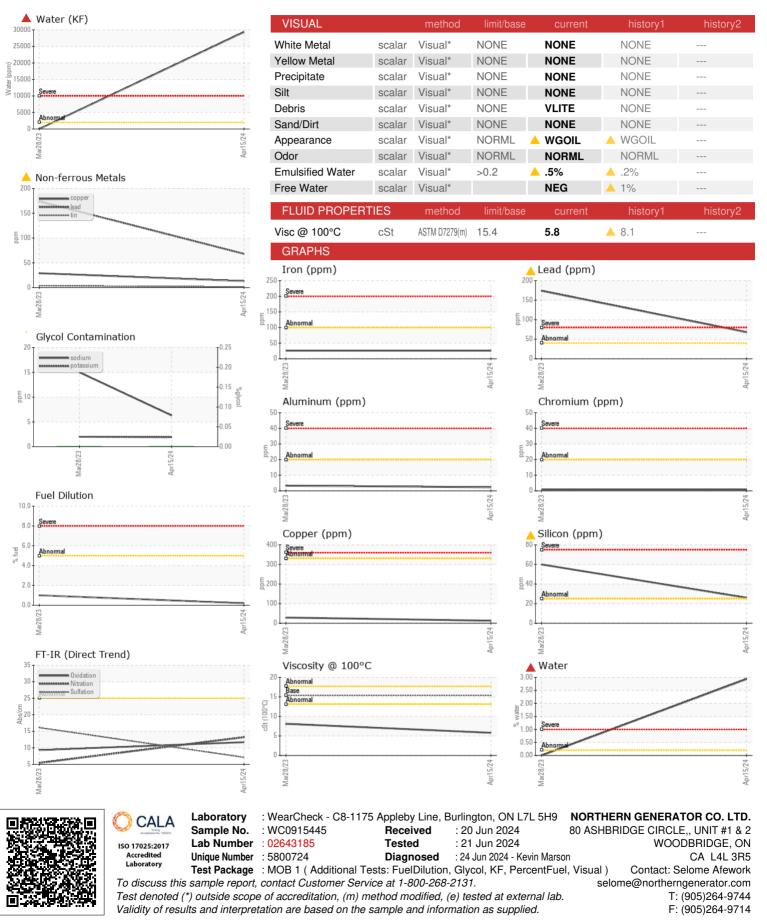
Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0915445	WC0794969	
Sample Date		Client Info		15 Apr 2024	28 Mar 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				SEVERE	SEVERE	
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>100	26	26	
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	
Nickel	ppm	ASTM D5185(m)	>4	<1	0	
Titanium	ppm	ASTM D5185(m)		0	<1	
Silver	ppm	ASTM D5185(m)	>3	<1	0	
Aluminum	ppm	ASTM D5185(m)		2	3	
Lead	ppm	ASTM D5185(m)	>40	_ 68	▲ 174	
Copper	ppm	ASTM D5185(m)		13	29	
Tin		ASTM D5185(m) ASTM D5185(m)	>330	13	4	
	ppm		210	0	4 <1	
Antimony Vanadium	ppm	ASTM D5185(m)		0	0	
	ppm	ASTM D5185(m)		-		
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		<1	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	1	110	123	
Barium	ppm	ASTM D5185(m)		1	2	
Volybdenum	ppm	ASTM D5185(m)	1	52	40	
Vanganese	ppm	ASTM D5185(m)		2	5	
Vagnesium	ppm	ASTM D5185(m)	10	576	401	
Calcium	ppm	ASTM D5185(m)	3032	1079	1368	
Phosphorus	ppm	ASTM D5185(m)	1054	656	758	
Zinc	ppm	ASTM D5185(m)	1332	786	783	
Sulfur	ppm	ASTM D5185(m)	3985	2235	2571	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	A 26	6 0	
Sodium	ppm	ASTM D5185(m)		6	15	
Potassium	ppm	ASTM D5185(m)	>20	2	2	
Fuel	%	ASTM D7593*		0.2	1	
Water	%	ASTM D6304*	>0.2	▲ 2.934		
opm Water	ppm	ASTM D6304*	>2000	▲ 29341		
Glycol	%	ASTM D7922*	2000	0.0	0.0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0	
Nitration	Abs/cm	ASTM D7624*		13.2	5.4	
Sulfation	Abs/.1mm	ASTM D7624 ASTM D7415*	>20	7.1	16.1	
Junation				1.1		
FLUID DEGRAD	ATION	method ASTM D7414*	limit/base	current	history1 9.3	history2

Contact/Location: Selome Afework - NORWOO



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