

## **OIL ANALYSIS REPORT**

Sample Rating Trend

### **WEAR**

#### Machine Id **50043912 PORT GEARBOX** Component

**Port Gearbox** Fluid

PETRO CANADA DURON HP 15W40 (--- LTR)

#### DIAGNOSIS

#### Recommendation

We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

#### A Wear

Copper ppm levels are abnormal.

#### Contamination

There is no indication of any contamination in the oil.

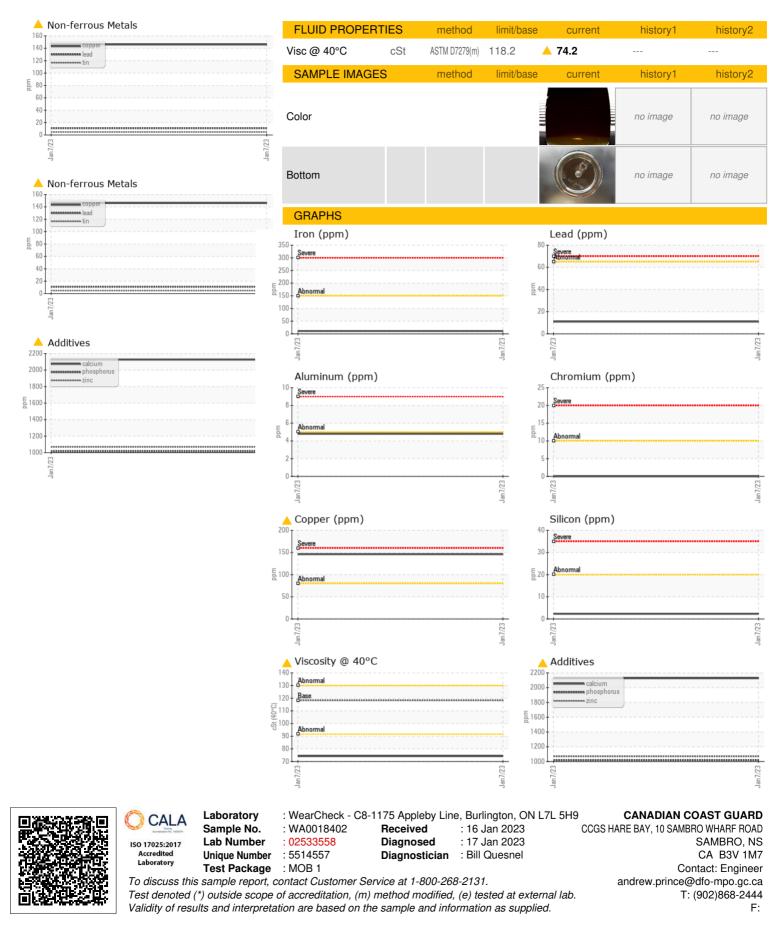
#### Fluid Condition

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

1)				Jan2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WA0018402		
Sample Date		Client Info		07 Jan 2023		
Machine Age	hrs	Client Info		683		
Oil Age	hrs	Client Info		268		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	11		
Chromium	ppm	ASTM D5185(m)	>10	0		
Nickel	ppm	ASTM D5185(m)	>10	<1		
Titanium	ppm	ASTM D5185(m)		4		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>5	5		
Lead	ppm	ASTM D5185(m)	>65	11		
Copper	ppm	ASTM D5185(m)	>80	<u> </u>		
Tin	ppm	ASTM D5185(m)	>8	5		
Antimony	ppm	ASTM D5185(m)	>5	<1		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	<b>1</b> 67		
Barium	ppm	ASTM D5185(m)	0	0		
Volybdenum	ppm	ASTM D5185(m)	60	<b>∧</b> 7		
Vanganese	ppm	ASTM D5185(m)	0	<1		
Vagnesium	ppm	ASTM D5185(m)	1010	<b>1</b> 87		
Calcium	ppm	ASTM D5185(m)	1070	<b>A</b> 2126		
Phosphorus	ppm	ASTM D5185(m)	1150	1017		
Zinc	ppm	ASTM D5185(m)	1270	1068		
Sulfur	ppm	ASTM D5185(m)	2060	▲ 3338		
Lithium	ppm	ASTM D5185(m)	2000	<1		
CONTAMINANTS	pp		limit/base		historid	history Q
Silicon	nnm		limit/base	current 2	history1	history2
	ppm	ASTM D5185(m)	>20			
Sodium	ppm	ASTM D5185(m)	00	3		
Potassium	ppm	ASTM D5185(m)	>20	6		
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		
	scalar	Visual*	NONE	NONE		
Debris						
Debris Sand/Dirt	scalar	Visual*	NONE	NONE		
Debris Sand/Dirt Appearance	scalar scalar	Visual* Visual*	NORML	NORML		
Debris Sand/Dirt Appearance Odor	scalar	Visual* Visual* Visual*	NORML NORML	NORML NORML		
Debris Sand/Dirt Appearance	scalar scalar	Visual* Visual*	NORML	NORML		



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Contact/Location: Engineer - CANSAM