

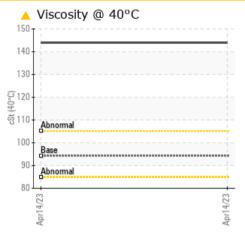
PROBLEM SUMMARY

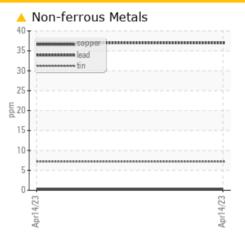
Area **Propulsion Shaft Bearings** Machine Id **Propulsion Shaft Bearings Port** Component

Rear Left Bearing

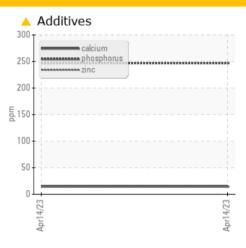
PETRO CANADA TURBOFLO R&O 100 (--- GAL)

COMPONENT CONDITION SUMMARY









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 TURBOFLO R&O 100, however, a fluid match indicates that this fluid is ISO 150 Synthetic (PAO) Gear Oil. Please confirm the oil type and grade on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL			
Lead	ppm	ASTM D5185(m)	>25	<u> </u>			
Boron	ppm	ASTM D5185(m)		A 39			
Phosphorus	ppm	ASTM D5185(m)	4	<u> </u>			
Sulfur	ppm	ASTM D5185(m)		A 3537			
Visc @ 40°C	cSt	ASTM D7279(m)	94.3	<u> </u>			

Customer Id: VMASSEY Sample No.: WC0810870 Lab Number: 02552963 Test Package: MAR 1



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Alert	MISSED	Aug 16 2023	?	The fluid was specified as PETRO CANADA TURBOFLO R&O 100, however, a fluid match indicates that this fluid is ISO 150 Synthetic (PAO) Gear Oil. Please confirm the oil type and grade on your next sample.		
Information Required	MISSED	Aug 16 2023	?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.		
Check Fluid Source	MISSED	Aug 16 2023	?	Confirm the source of the lubricant being utilized for top-up/fill.		

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Number

Sample Date

Machine Age

Oil Changed

Sample Status

WEAR METALS

Oil Age

Iron

Nickel

Silver

Lead

Tin

Copper

Antimony

Vanadium

Beryllium

Cadmium

ADDITIVES

Titanium

Aluminum

Chromium

Propulsion Shaft Bearings Propulsion Shaft Bearings Port

Rear Left Bearing

PETRO CANADA TURBOFLO R&O 100 (--- GAL)

DIAGNOSIS

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 TURBOFLO R&O 100, however, a fluid match indicates that this fluid is ISO 150 Synthetic (PAO) Gear Oil. Please confirm the oil type and grade on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

A Wear

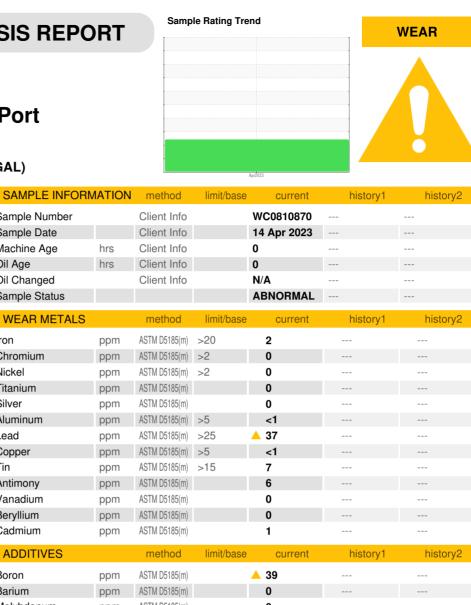
Lead ppm levels are noted. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

Viscosity of sample indicates oil is within ISO 150 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 oil is acceptable for the time in service.



Boron	ppm	ASTM D5185(m)		A 39	
Barium	ppm	ASTM D5185(m)		0	
Molybdenum	ppm	ASTM D5185(m)		0	
Manganese	ppm	ASTM D5185(m)		<1	
Magnesium	ppm	ASTM D5185(m)		<1	
Calcium	ppm	ASTM D5185(m)	0	15	
Phosphorus	ppm	ASTM D5185(m)	4	🔺 247	
Zinc	ppm	ASTM D5185(m)	0	14	
Sulfur	ppm	ASTM D5185(m)		🔺 3537	
Lithium	ppm	ASTM D5185(m)		<1	

CONTAMINANTS	i.	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	7		
Sodium	ppm	ASTM D5185(m)		1		
Potassium	ppm	ASTM D5185(m)	>20	<1		

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		
Emulsified Water	scalar	Visual*	>0.1	NEG		
Free Water	scalar	Visual*		NEG		

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Submitted By: Vincent Massey



OIL ANALYSIS REPORT

