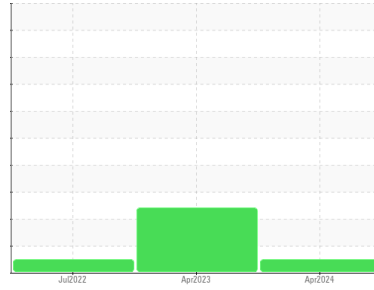




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id

**30**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON HP 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0850981</b>	WC0740549	WC0740560
Sample Date	Client Info		<b>14 Apr 2024</b>	21 Apr 2023	21 Jul 2022
Machine Age	mls	Client Info	<b>0</b>	114358	108708
Oil Age	mls	Client Info	<b>0</b>	0	10000
Oil Changed	Client Info		<b>N/A</b>	Not Changd	Not Changd
Sample Status			<b>NORMAL</b>	SEVERE	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>53</b>	41	62
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	3	2
Nickel	ppm	ASTM D5185m >4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>16</b>	9	23
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m >330	<b>&lt;1</b>	<1	11
Tin	ppm	ASTM D5185m >15	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>35</b>	8	9
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>88</b>	56	54
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	1	1
Magnesium	ppm	ASTM D5185m	<b>607</b>	872	809
Calcium	ppm	ASTM D5185m	<b>1706</b>	1084	1187
Phosphorus	ppm	ASTM D5185m	<b>1187</b>	924	871
Zinc	ppm	ASTM D5185m	<b>1360</b>	1193	1163
Sulfur	ppm	ASTM D5185m	<b>4262</b>	3082	3328

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>5</b>	5	14
Sodium	ppm	ASTM D5185m	<b>32</b>	2	3
Potassium	ppm	ASTM D5185m >20	<b>96</b>	8	54
Fuel	%	ASTM D3524 >5	<b>1.2</b>	▲ 8.3	<1.0
Glycol	%	*ASTM D2982	<b>0.0</b>	NEG	NEG

## INFRA-RED

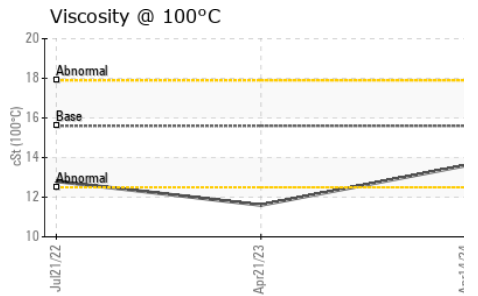
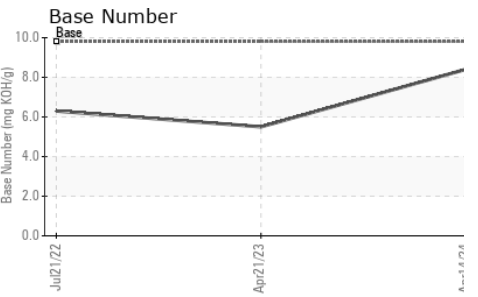
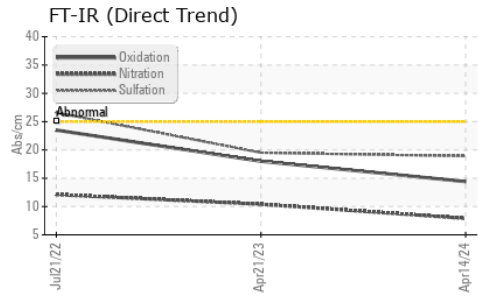
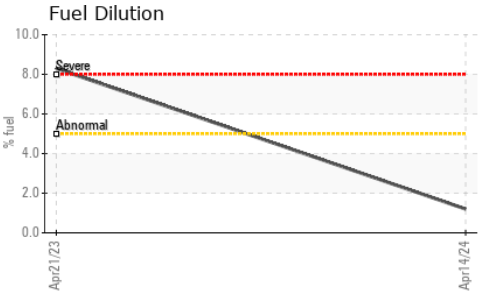
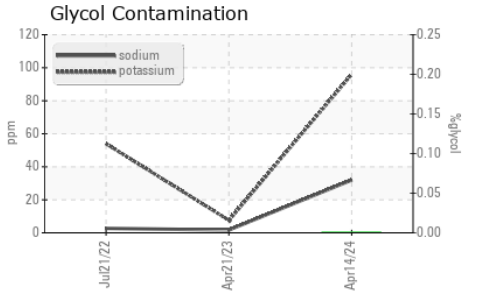
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.4</b>	0.7	0.8
Nitration	Abs/cm	*ASTM D7624 >20	<b>7.9</b>	10.4	12.1
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>18.9</b>	19.5	26.6

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>14.4</b>	18.0	23.5
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	<b>8.4</b>	5.5	6.3



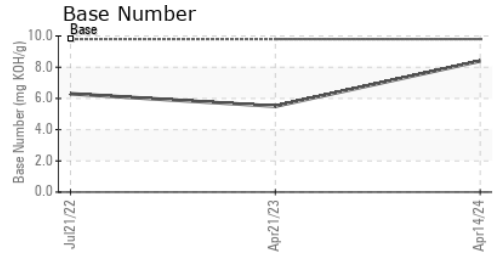
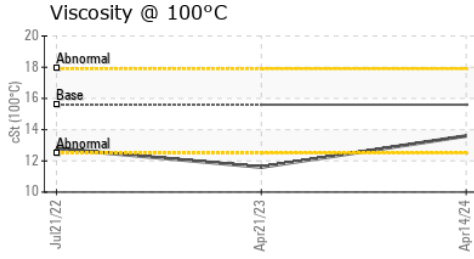
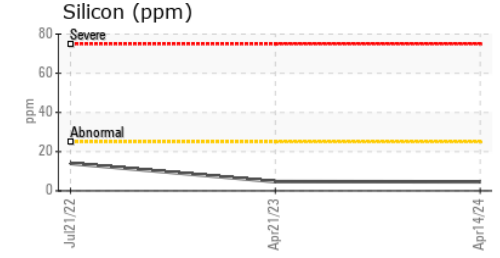
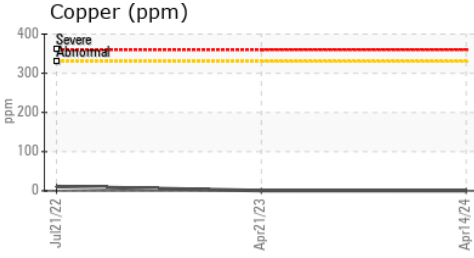
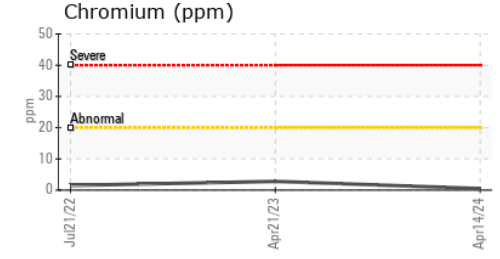
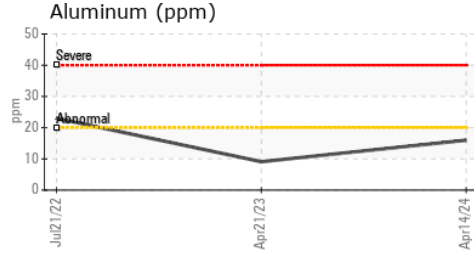
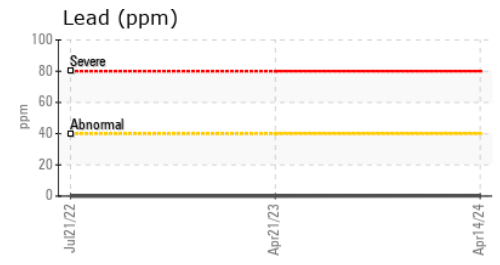
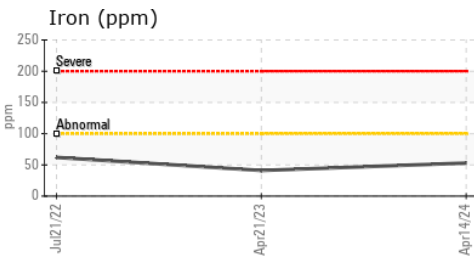
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
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	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.6	13.6	▲ 11.6	12.8

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0850981      **Received** : 15 Apr 2024  
**Lab Number** : **06149338**      **Tested** : 19 Apr 2024  
**Unique Number** : 10979416      **Diagnosed** : 19 Apr 2024 - Don Baldrige  
**Test Package** : MOB 1 ( Additional Tests: Glycol, PercentFuel, TBN )

**ANSON CO SCHOOL BUS GARAGE**  
 89 BOGGAN CUT RD  
 WADESBORO, NC  
 US 28135  
 Contact: MATT POWELL  
 powell.berkeley@anson.k12.nc.us

To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)