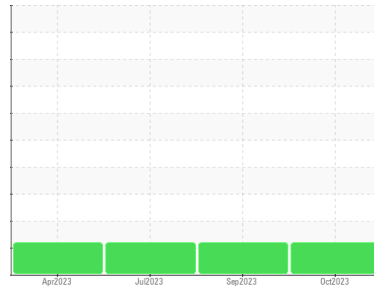




# OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL



Machine Id  
**INTERNATIONAL 52936**

Component  
**Propane Engine**

Fluid  
**PETRO CANADA DURON SHP 10W30 (--- LTR)**

## DIAGNOSIS

### Recommendation

Check for low coolant level. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### Wear

Metal levels are typical for a new component breaking in.

### Contamination

Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative.

### Fluid Condition

The condition of the oil is acceptable for the time in service (see recommendation).

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0857920</b>	WC0857900	WC0836010
Sample Date	Client Info		<b>05 Oct 2023</b>	07 Sep 2023	19 Jul 2023
Machine Age	mls	Client Info	<b>32697</b>	88226	68882
Oil Age	mls	Client Info	<b>32697</b>	88226	34330
Oil Changed	Client Info		<b>Changed</b>	Not Changd	Changed
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>100	<b>20</b>	15	30
Chromium	ppm	ASTM D5185(m)	>25	<b>2</b>	1	2
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>18</b>	17	34
Lead	ppm	ASTM D5185(m)	>25	<b>4</b>	2	4
Copper	ppm	ASTM D5185(m)	>35	<b>2</b>	2	6
Tin	ppm	ASTM D5185(m)	>8	<b>1</b>	1	2
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	2	<b>2</b>	2	6
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	50	<b>57</b>	56	62
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185(m)	950	<b>916</b>	920	949
Calcium	ppm	ASTM D5185(m)	1050	<b>1036</b>	1027	1151
Phosphorus	ppm	ASTM D5185(m)	995	<b>938</b>	996	1062
Zinc	ppm	ASTM D5185(m)	1180	<b>1147</b>	1133	1232
Sulfur	ppm	ASTM D5185(m)	2600	<b>2351</b>	2493	2357
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>50	<b>6</b>	6	12
Sodium	ppm	ASTM D5185(m)		<b>2</b>	2	2
Potassium	ppm	ASTM D5185(m)	>20	<b>▲ 48</b>	▲ 46	▲ 96

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		<b>0.3</b>	0.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.3</b>	7.1	9.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.2</b>	19.2	21.9

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.1</b>	14.7	17.0

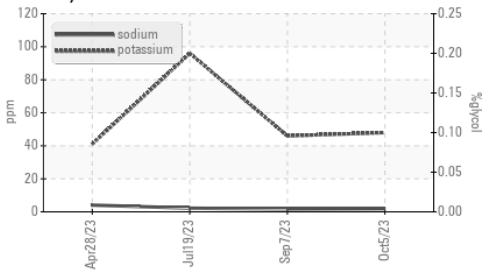
## VISUAL

	method	limit/base	current	history1	history2	
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

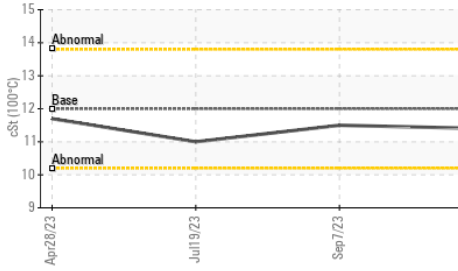


# OIL ANALYSIS REPORT

## ▲ Glycol Contamination



## Viscosity @ 100°C

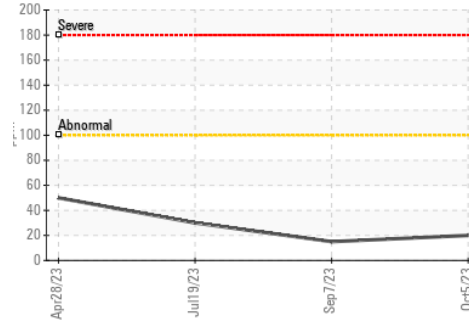


## FLUID PROPERTIES

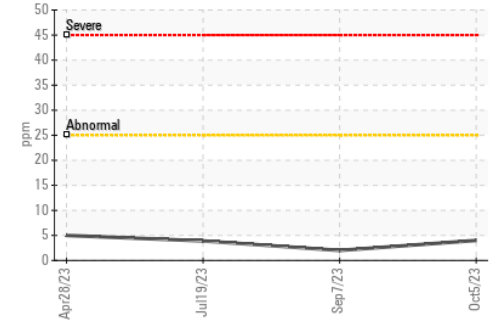
method	limit/base	current	history1	history2
Visc @ 100°C	cSt	11.4	11.5	11.0

## GRAPHS

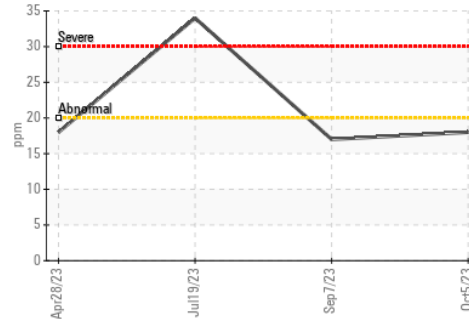
### Iron (ppm)



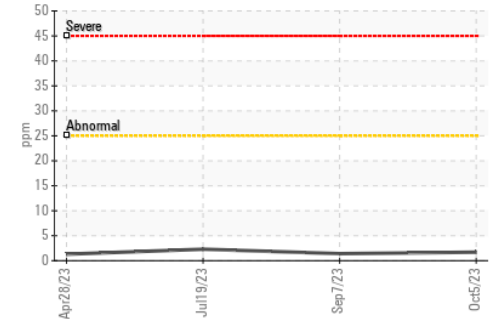
### Lead (ppm)



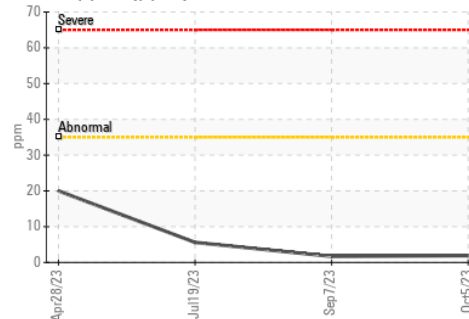
### Aluminum (ppm)



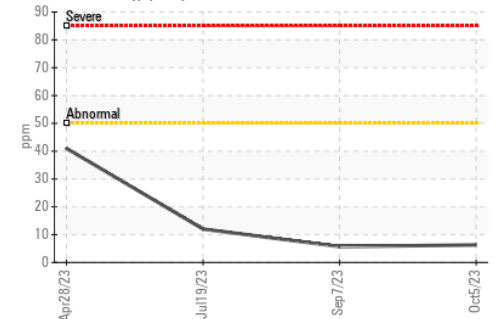
### Chromium (ppm)



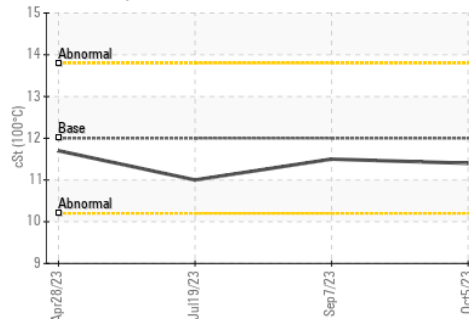
### Copper (ppm)



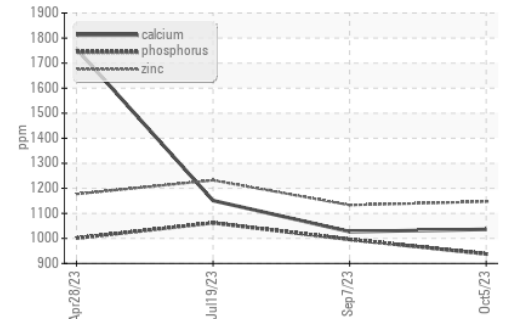
### Silicon (ppm)



## Viscosity @ 100°C



## Additives



ISO 17025:2017  
Accredited  
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
 Sample No. : WC0857920  
 Lab Number : 02589264  
 Unique Number : 5658330  
 Test Package : MOB 1

Received : 16 Oct 2023  
 Diagnosed : 16 Oct 2023  
 Diagnostician : Kevin Marson

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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.