



# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**837203H**

Component  
**Diesel Engine**

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

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>WC0886700</b>	---	---
Sample Date	Client Info			<b>17 Nov 2023</b>	---	---
Machine Age	hrs	Client Info		<b>1319</b>	---	---
Oil Age	hrs	Client Info		<b>399</b>	---	---
Oil Changed	Client Info			<b>Changed</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	---	---
Water	WC Method	>0.2		<b>NEG</b>	---	---
Glycol	WC Method			<b>NEG</b>	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	<b>24</b>	---	---
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>5</b>	---	---
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	---	---
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	---	---
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	---	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	---	---

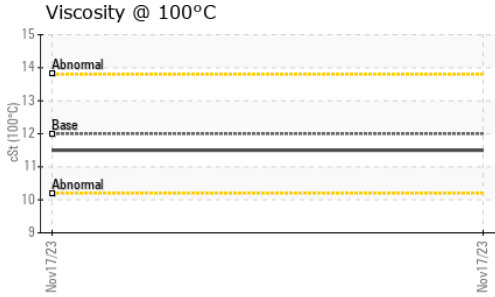
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	<b>2</b>	---	---
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	50	<b>65</b>	---	---
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m)	950	<b>1082</b>	---	---
Calcium	ppm	ASTM D5185(m)	1050	<b>1183</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	995	<b>1072</b>	---	---
Zinc	ppm	ASTM D5185(m)	1180	<b>1270</b>	---	---
Sulfur	ppm	ASTM D5185(m)	2600	<b>2691</b>	---	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	---	---
Sodium	ppm	ASTM D5185(m)		<b>3</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.0</b>	---	---
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>19.2</b>	---	---



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### FLUID DEGRADATION

Method	Limit/Base	Current	History1	History2
Abs./1mm	ASTM D7414*	>25	---	---
<b>Oxidation</b>		<b>15.6</b>		

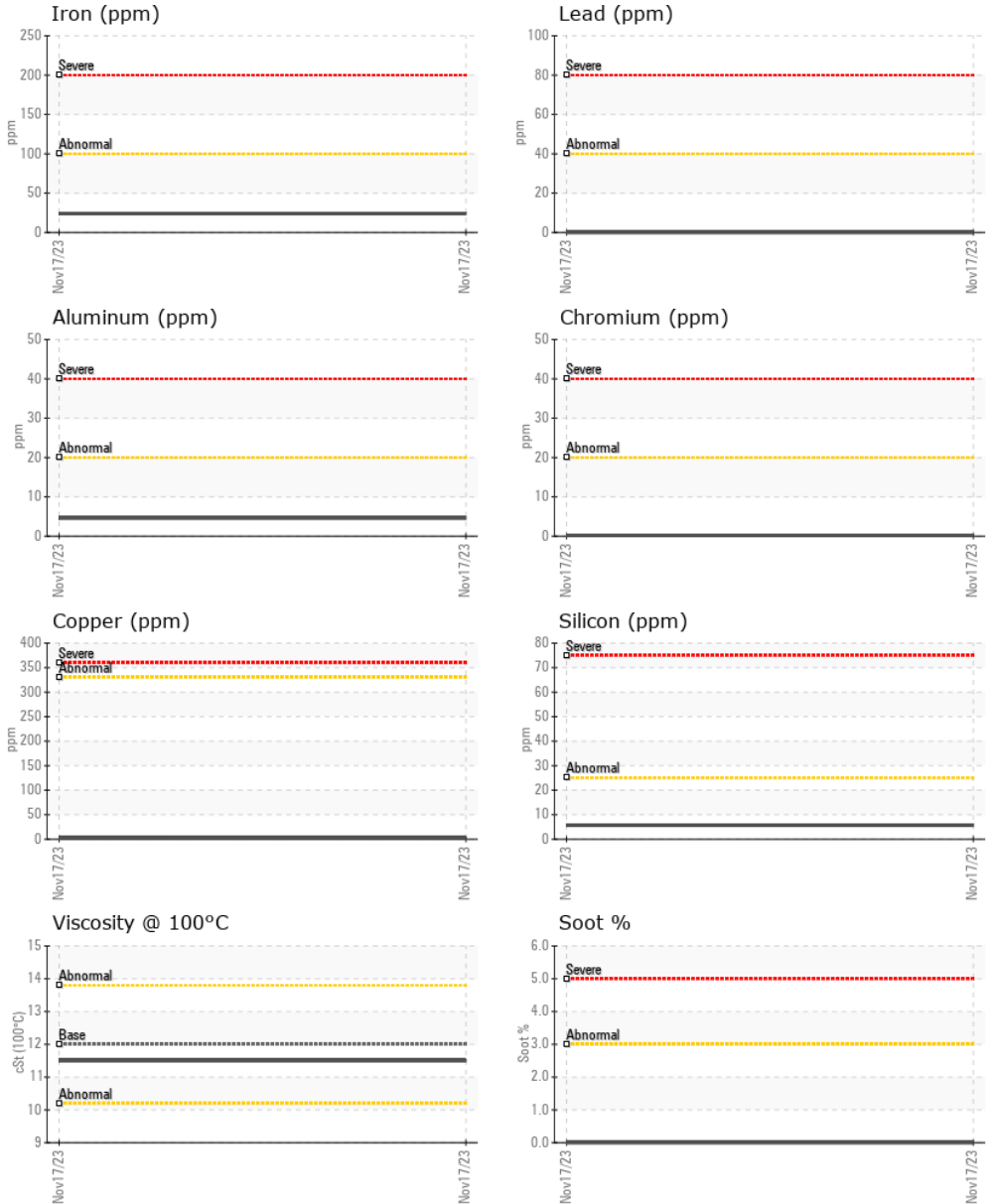
### VISUAL

Method	Limit/Base	Current	History1	History2
scalar	Visual*	>0.2	---	---
<b>Emulsified Water</b>		<b>NEG</b>		
scalar	Visual*		---	---
<b>Free Water</b>		<b>NEG</b>		

### FLUID PROPERTIES

Method	Limit/Base	Current	History1	History2
cSt	ASTM D7279(m)	12.00	---	---
<b>Visc @ 100°C</b>		<b>11.5</b>		

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **MANITOU LIN TRANSPORT (GARAGE)**  
**Sample No.** : WC0886700 **Received** : 22 Dec 2023 1335 SHAWSON DRIVE  
**Lab Number** : 02604900 **Diagnosed** : 22 Dec 2023 MISSISSAUGA, ON  
**Unique Number** : 5697985 **Diagnostician** : Wes Davis CA L4W 1C4  
**Test Package** : MOB 1

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.

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