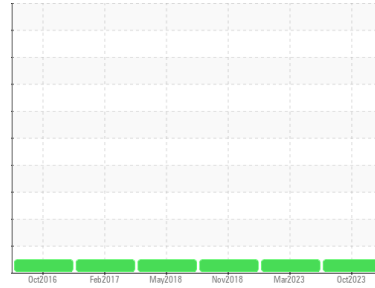




# OIL ANALYSIS REPORT

### Sample Rating Trend



**NORMAL**



Area  
**FUEL**  
Machine Id  
**319**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

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 suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0104671</b>	PCA0066612	PCA81118355
Sample Date	Client Info		<b>27 Oct 2023</b>	19 Mar 2023	27 Nov 2018
Machine Age	mls	Client Info	<b>285707</b>	285707	144342
Oil Age	mls	Client Info	<b>285707</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>65	<b>34</b>	47	14
Chromium	ppm	ASTM D5185m	>5	<b>1</b>	2	1
Nickel	ppm	ASTM D5185m	>3	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	>5	<b>0</b>	<1	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>35	<b>13</b>	20	9
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>180	<b>3</b>	4	8
Tin	ppm	ASTM D5185m	>8	<b>0</b>	0	0
Antimony	ppm	ASTM D5185m	>35	<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	2	<b>1</b>	2	3
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>57</b>	61	57
Manganese	ppm	ASTM D5185m	0	<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m	950	<b>923</b>	948	865
Calcium	ppm	ASTM D5185m	1050	<b>1034</b>	1082	1050
Phosphorus	ppm	ASTM D5185m	995	<b>981</b>	1026	939
Zinc	ppm	ASTM D5185m	1180	<b>1205</b>	1240	1107
Sulfur	ppm	ASTM D5185m	2600	<b>2783</b>	2800	2574

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>15	<b>5</b>	4	1
Sodium	ppm	ASTM D5185m		<b>23</b>	5	1
Potassium	ppm	ASTM D5185m	>20	<b>31</b>	10	14

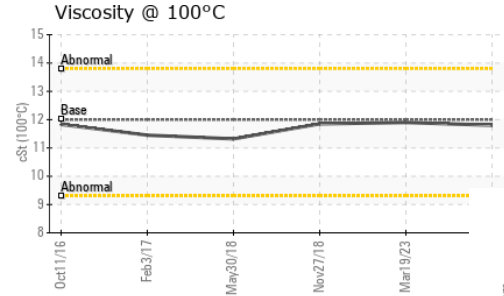
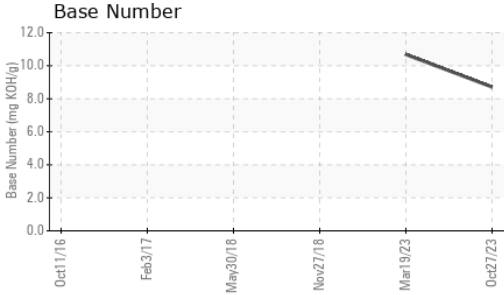
## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	<b>1.4</b>	0.8	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.9</b>	9.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.9</b>	20.0	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.1</b>	15.8	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.71</b>	10.68	---

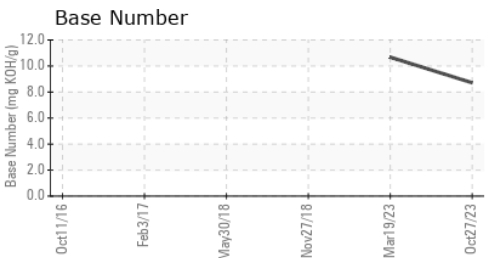
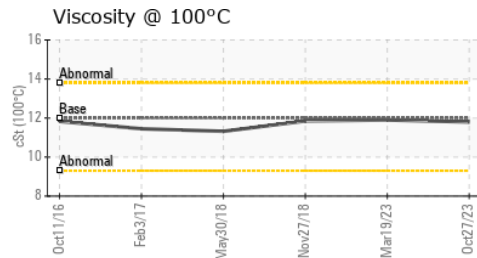
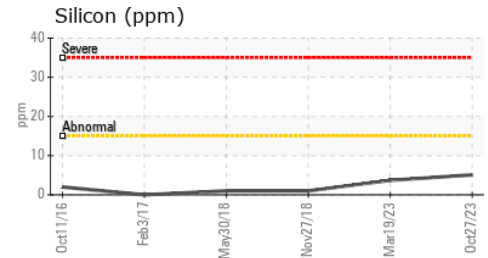
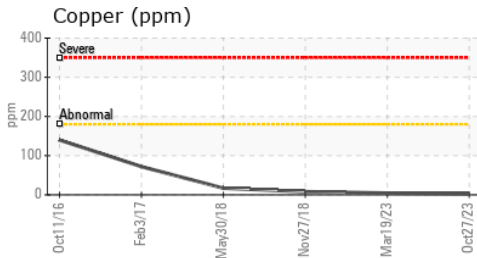
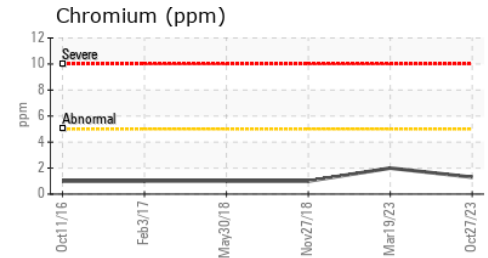
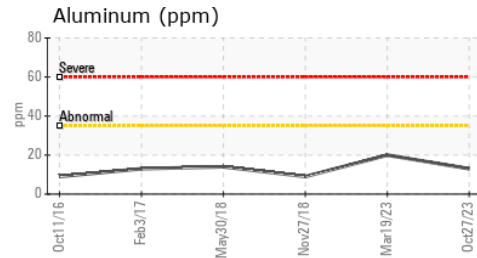
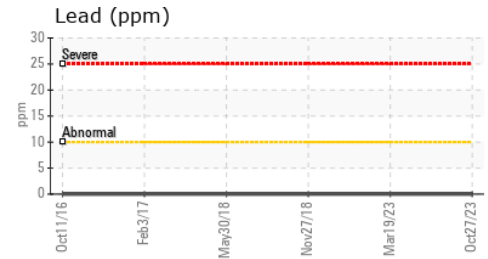
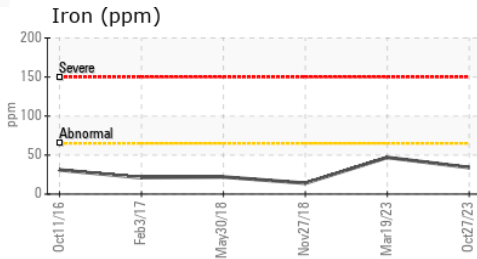
# OIL ANALYSIS REPORT



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	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	12.00	11.8	11.9	11.85

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0104671 **Received** : 01 Nov 2023  
**Lab Number** : 05996384 **Diagnosed** : 03 Nov 2023  
**Unique Number** : 10724744 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2

**DENNIS K BURKE INC - INTERNAL SAMPLES**  
 555 CONSTITUTION DR  
 TAUNTON, MA  
 US 02780  
 Contact: GREG DUNKER

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)

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