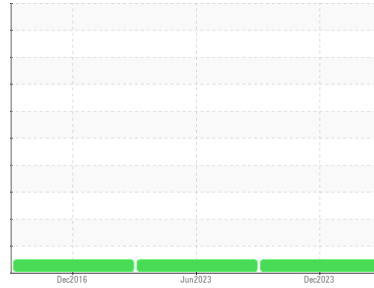


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**FUEL**  
Machine Id  
**320**  
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>PCA0109685</b>	WC0570559	PCA70119671
Sample Date	Client Info			<b>05 Dec 2023</b>	08 Jun 2023	29 Dec 2016
Machine Age	mls	Client Info		<b>389387</b>	365505	82761
Oil Age	mls	Client Info		<b>16000</b>	12000	---
Oil Changed	Client Info			<b>Changed</b>	Changed	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
Water	WC Method	>0.2		<b>NEG</b>	NEG	NEG
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>65	<b>21</b>	27	18
Chromium	ppm	ASTM D5185m	>5	<b>1</b>	2	2
Nickel	ppm	ASTM D5185m	>3	<b>0</b>	0	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>9</b>	13	15
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>180	<b>2</b>	3	24
Tin	ppm	ASTM D5185m	>8	<b>0</b>	<1	1
Antimony	ppm	ASTM D5185m	>35	<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

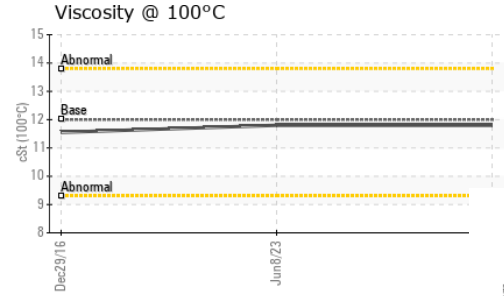
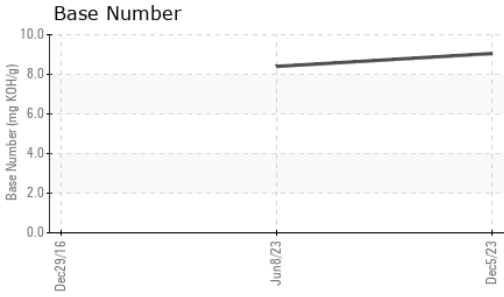
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>4</b>	8	3
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>60</b>	73	47
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	950	<b>967</b>	1032	757
Calcium	ppm	ASTM D5185m	1050	<b>1080</b>	1335	1057
Phosphorus	ppm	ASTM D5185m	995	<b>1022</b>	1178	951
Zinc	ppm	ASTM D5185m	1180	<b>1257</b>	1402	1118
Sulfur	ppm	ASTM D5185m	2600	<b>2898</b>	3935	2742

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<b>4</b>	4	0
Sodium	ppm	ASTM D5185m		<b>2</b>	<1	4
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	3	23

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.8</b>	0.9	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.9</b>	9.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.7</b>	20.6	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.4</b>	16.9	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>9.05</b>	8.40	---

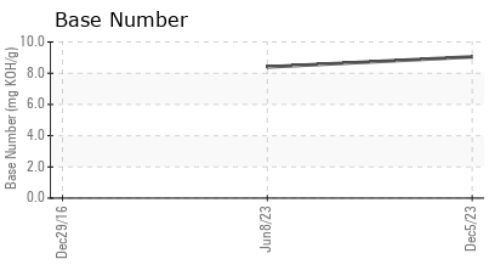
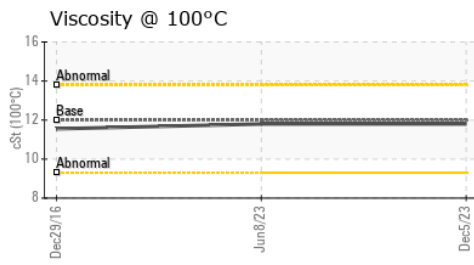
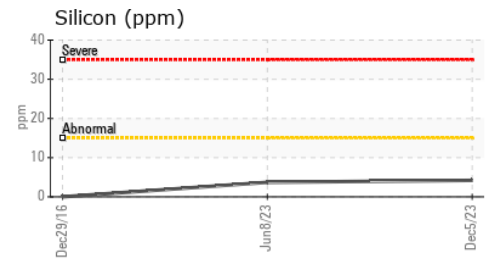
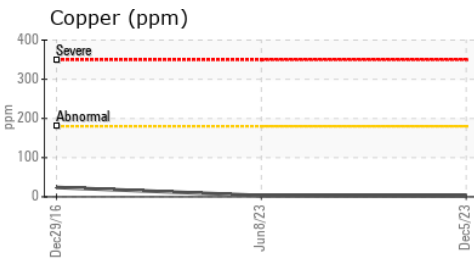
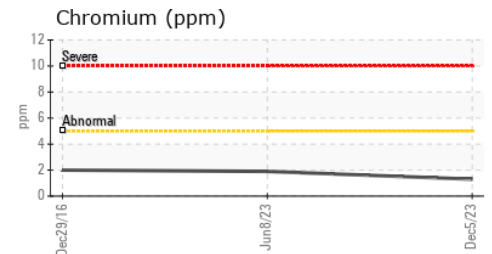
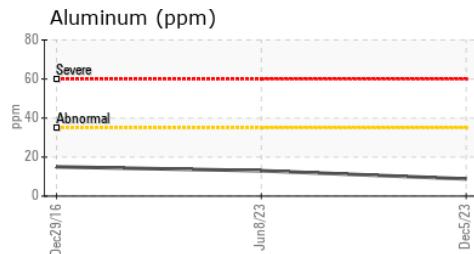
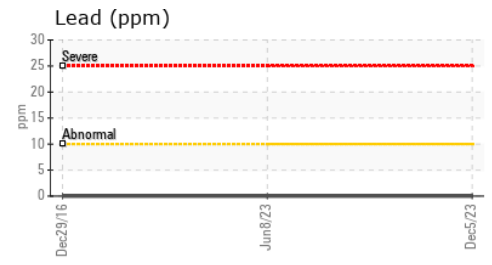
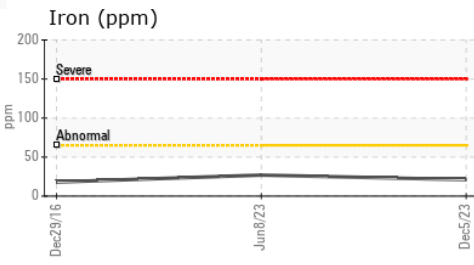
# OIL ANALYSIS REPORT



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	11.55

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0109685 **Received** : 07 Dec 2023  
**Lab Number** : 06028824 **Diagnosed** : 09 Dec 2023  
**Unique Number** : 10778615 **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)

T:  
 F: (617)889-6422