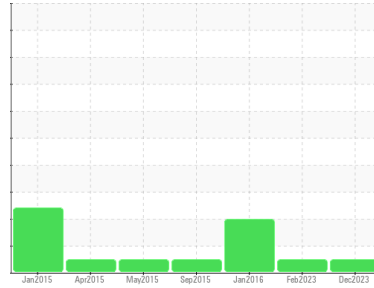


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**LUBES**  
Machine Id  
**148**  
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>PCA0109687</b>	PCA0066691	PCA60179612
Sample Date	Client Info		<b>05 Dec 2023</b>	02 Feb 2023	19 Jan 2016
Machine Age	mls	Client Info	<b>395561</b>	364525	50641
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	ABNORMAL

## 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>22</b>	22	28
Chromium	ppm	ASTM D5185m >5	<b>&lt;1</b>	1	4
Nickel	ppm	ASTM D5185m >3	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m >5	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >35	<b>9</b>	10	▲ 28
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >180	<b>2</b>	3	33
Tin	ppm	ASTM D5185m >8	<b>0</b>	<1	1
Antimony	ppm	ASTM D5185m >35	<b>---</b>	---	1
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	2
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>60</b>	63	48
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m 950	<b>976</b>	877	821
Calcium	ppm	ASTM D5185m 1050	<b>1067</b>	1123	1495
Phosphorus	ppm	ASTM D5185m 995	<b>1013</b>	1010	1031
Zinc	ppm	ASTM D5185m 1180	<b>1268</b>	1214	1314
Sulfur	ppm	ASTM D5185m 2600	<b>2840</b>	2961	2867

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>4</b>	4	2
Sodium	ppm	ASTM D5185m	<b>2</b>	0	5
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	4	▲ 54

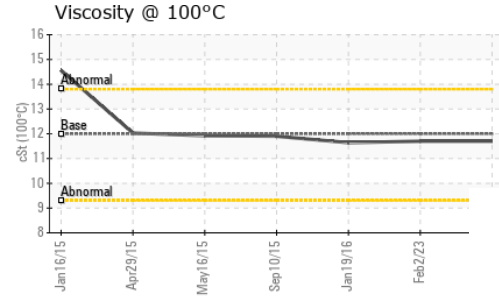
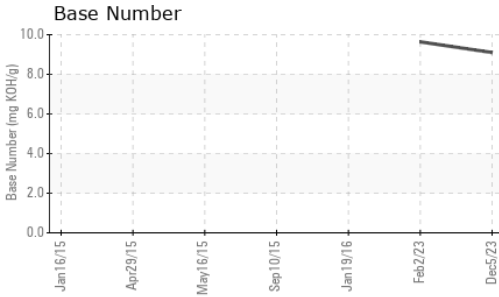
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>1.1</b>	0.7	0.6
Nitration	Abs/cm	*ASTM D7624 >20	<b>9.3</b>	8.4	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>20.4</b>	19.1	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>16.0</b>	14.7	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>9.10</b>	9.64	---

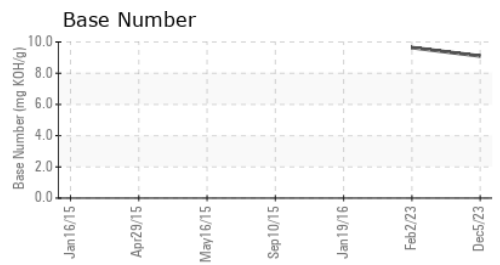
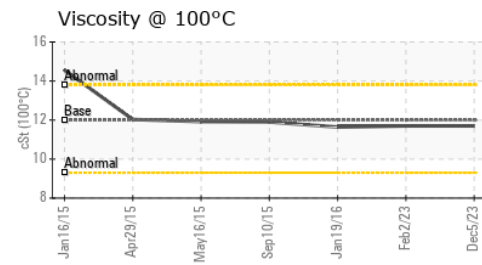
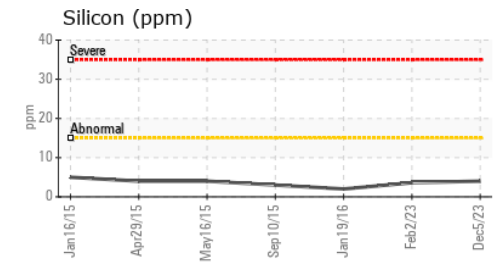
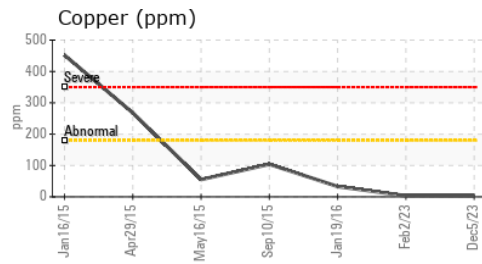
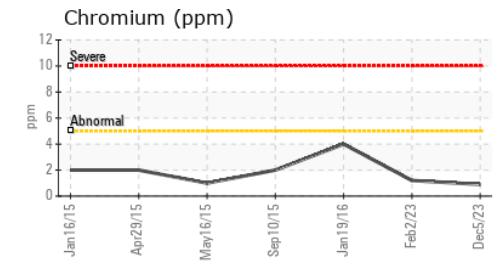
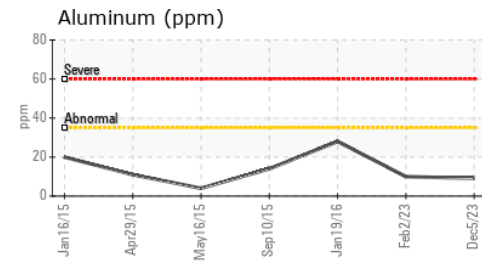
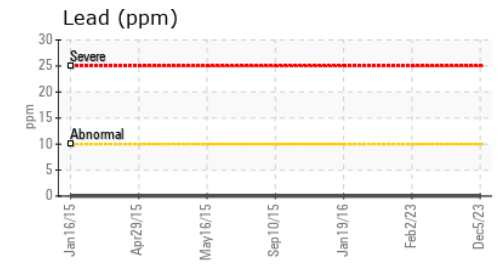
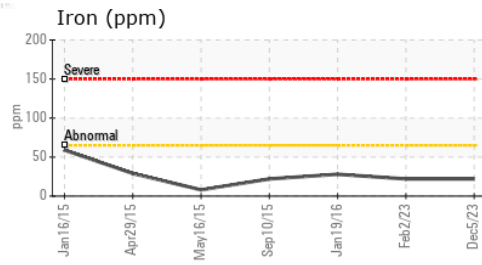
# OIL ANALYSIS REPORT



PARAMETER	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	<b>11.7</b>	11.7	11.64

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0109687 **Received** : 07 Dec 2023  
**Lab Number** : **06028834** **Diagnosed** : 11 Dec 2023  
**Unique Number** : 10778625 **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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