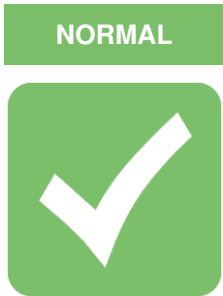
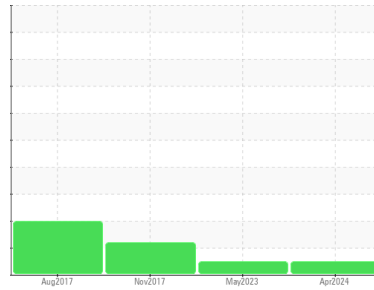


# OIL ANALYSIS REPORT

Area  
**FUEL**  
 Machine Id  
**332**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (38 QTS)**

Sample Rating Trend



## 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>PCA0109983</b>	PCA0090726	PCA71227658
Sample Date	Client Info			<b>16 Apr 2024</b>	02 May 2023	20 Nov 2017
Machine Age	mls	Client Info		<b>292673</b>	261214	121430
Oil Age	mls	Client Info		<b>16000</b>	12000	401584
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>18</b>	10	19
Chromium	ppm	ASTM D5185m	>5	<b>1</b>	0	2
Nickel	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	>5	<b>1</b>	0	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>35	<b>8</b>	6	17
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>180	<b>2</b>	<1	89
Tin	ppm	ASTM D5185m	>8	<b>&lt;1</b>	0	5
Antimony	ppm	ASTM D5185m	>35	<b>---</b>	---	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0

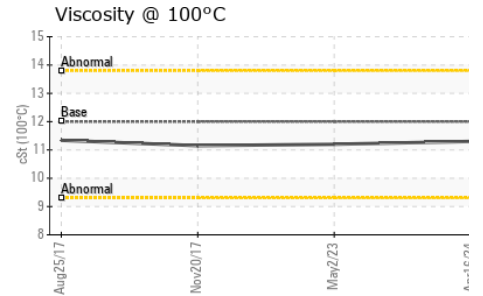
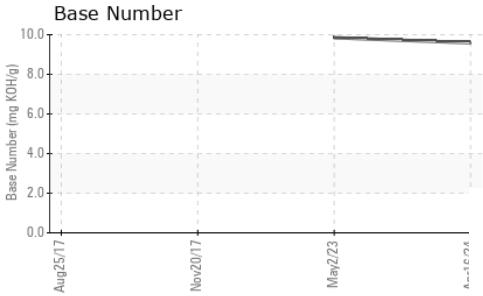
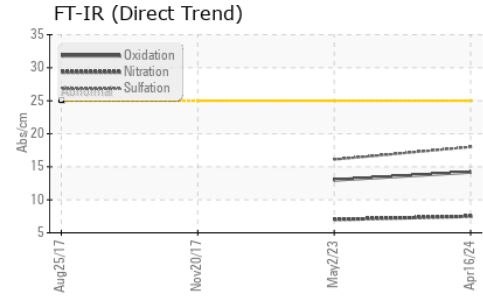
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>10</b>	8	6
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>65</b>	60	62
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m	950	<b>908</b>	927	935
Calcium	ppm	ASTM D5185m	1050	<b>1070</b>	1187	1180
Phosphorus	ppm	ASTM D5185m	995	<b>996</b>	1004	955
Zinc	ppm	ASTM D5185m	1180	<b>1160</b>	1191	1143
Sulfur	ppm	ASTM D5185m	2600	<b>3072</b>	3602	2652

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<b>5</b>	3	1
Sodium	ppm	ASTM D5185m		<b>0</b>	4	2
Potassium	ppm	ASTM D5185m	>20	<b>7</b>	6	▲ 40

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.5</b>	7.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.0</b>	16.1	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.2</b>	13.0	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>9.59</b>	9.85	---

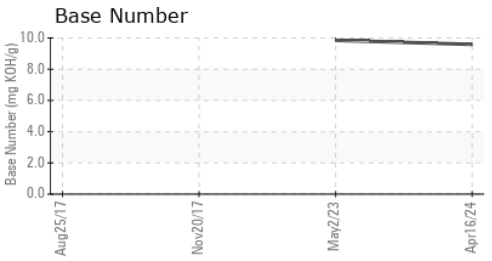
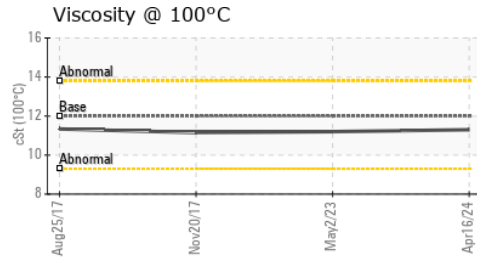
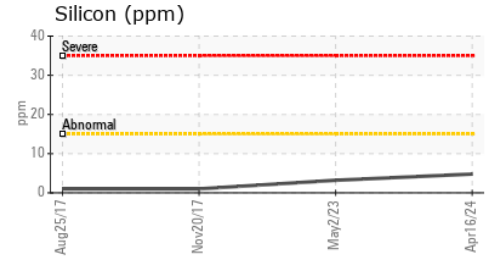
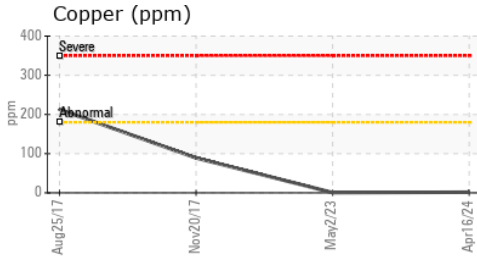
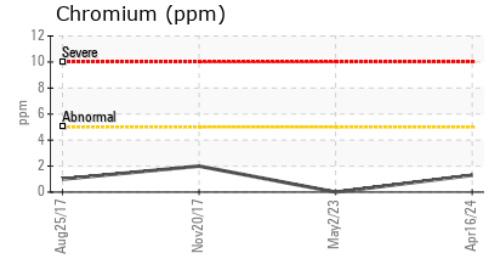
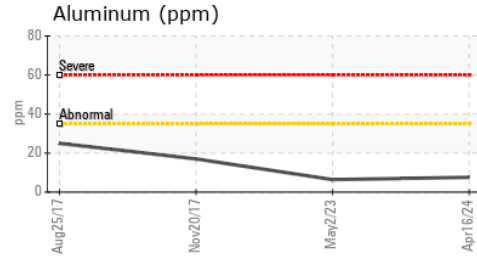
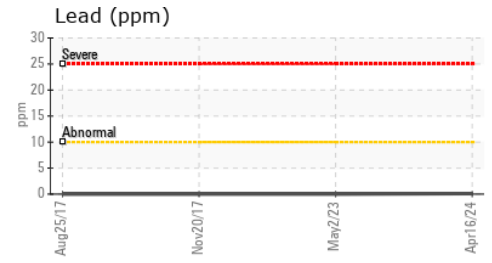
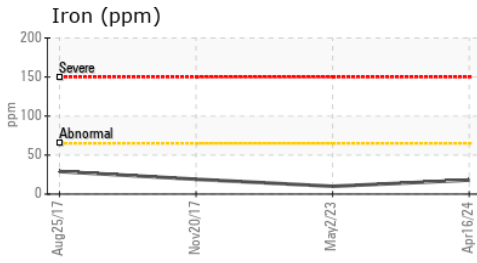
# OIL ANALYSIS REPORT



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	11.3	11.2

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0109983  
**Lab Number** : 06155257  
**Unique Number** : 10990680  
**Test Package** : MOB 2

**Received** : 19 Apr 2024  
**Tested** : 22 Apr 2024  
**Diagnosed** : 22 Apr 2024 - Wes Davis

**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