



Area  
**FUEL**  
Machine Id  
**341**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (28 QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0109600</b>	PCA0109678	PCA0098667
Sample Date		Client Info		<b>17 Jun 2024</b>	05 Dec 2023	29 Sep 2023
Machine Age	mls	Client Info		<b>76341</b>	56544	32234
Oil Age	mls	Client Info		<b>6000</b>	6000	16000
Filter Age	mls	Client Info		<b>6000</b>	6000	16000
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>14</b>	15	16
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	<1	2
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	2	5
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>9</b>	8	10
Lead	ppm	ASTM D5185m	>30	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>30	<b>2</b>	1	2
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

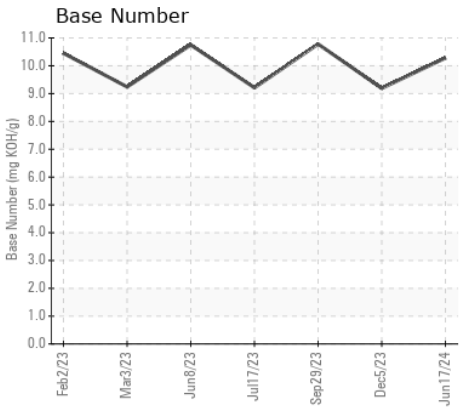
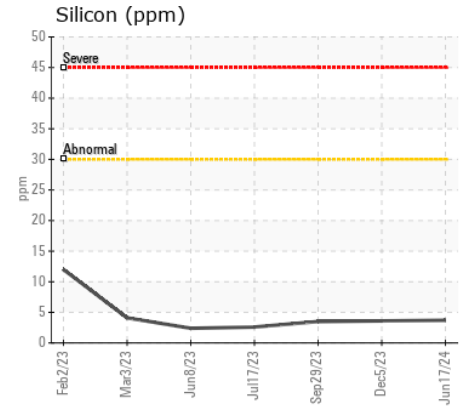
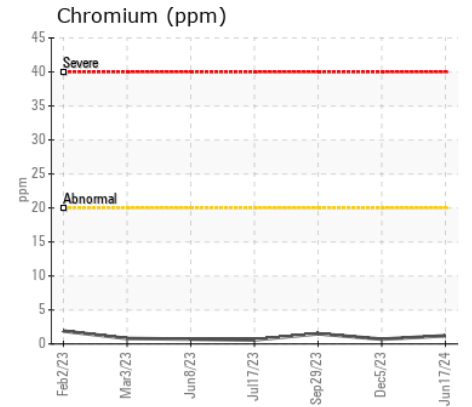
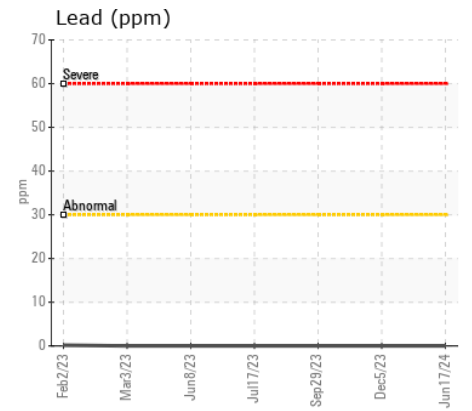
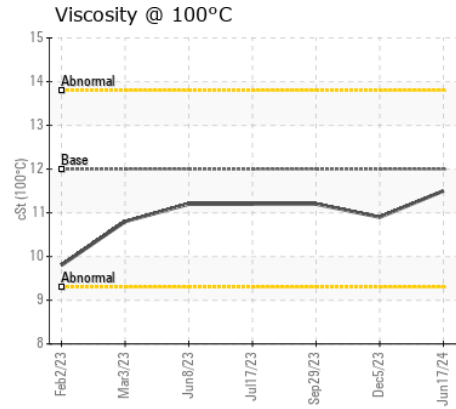
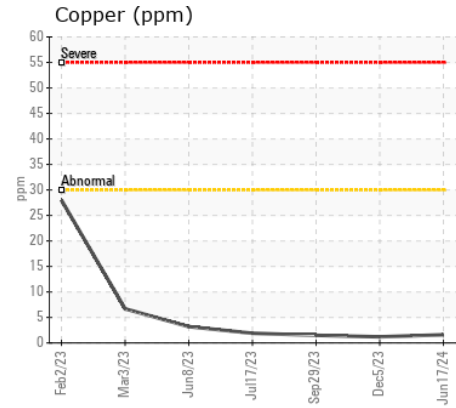
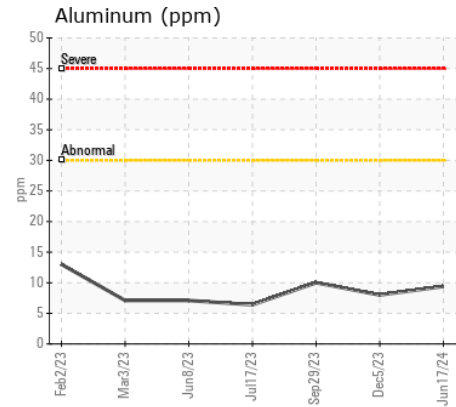
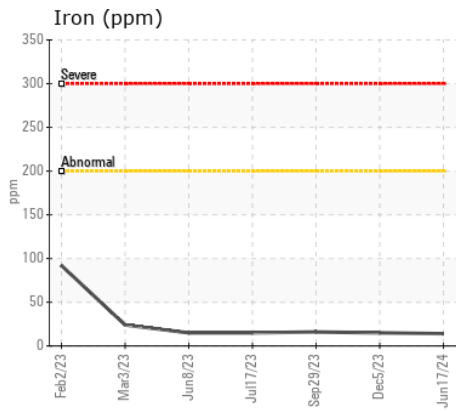
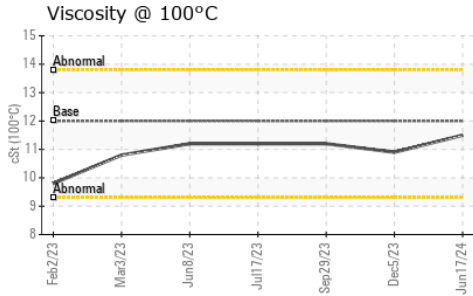
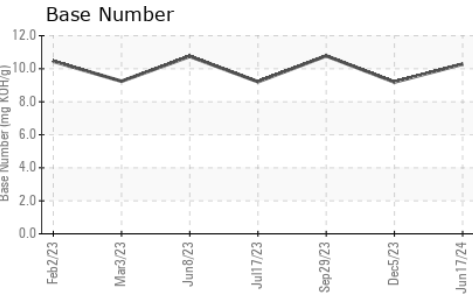
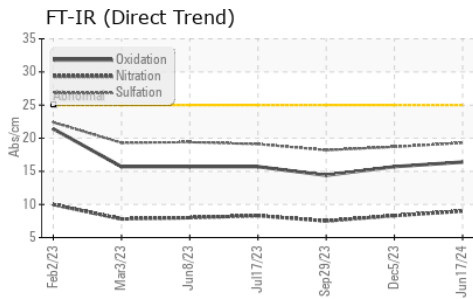
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>4</b>	4	4
Potassium	ppm	ASTM D5185m	>20	<b>20</b>	16	28
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
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.0</b>	8.3	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.3</b>	18.7	18.2
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

**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.

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	2	2
Boron	ppm	ASTM D5185m	2	<b>7</b>	14	12
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>61</b>	60	57
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	950	<b>970</b>	941	961
Calcium	ppm	ASTM D5185m	1050	<b>1139</b>	1128	1120
Phosphorus	ppm	ASTM D5185m	995	<b>989</b>	1039	1020
Zinc	ppm	ASTM D5185m	1180	<b>1273</b>	1251	1242
Sulfur	ppm	ASTM D5185m	2600	<b>3051</b>	3085	3186
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.4</b>	15.7	14.4
Base Number (BN)	mg KOH/g	ASTM D2896		<b>10.28</b>	9.19	10.78
Visc @ 100°C	cSt	ASTM D445	12.00	<b>11.5</b>	10.9	11.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0109600  
**Lab Number** : 06230404  
**Unique Number** : 11113897  
**Test Package** : MOB 2

**Received** : 08 Jul 2024  
**Tested** : 09 Jul 2024  
**Diagnosed** : 09 Jul 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)

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 F: (617)889-6422