



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Area  
**(19354Z) S0916A-Suamico**  
Machine Id  
**420050**  
Component  
**Front Center Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (44 QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0095938</b>	GFL0074844	GFL0074831
Sample Date		Client Info		<b>11 Mar 2024</b>	19 Sep 2023	13 Jul 2023
Machine Age	hrs	Client Info		<b>9089</b>	7929	7426
Oil Age	hrs	Client Info		<b>1160</b>	503	652
Filter Age	hrs	Client Info		<b>0</b>	503	652
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	>120	<b>11</b>	13	14
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>5	<b>2</b>	<1	2
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	1	1
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>2</b>	2	3
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

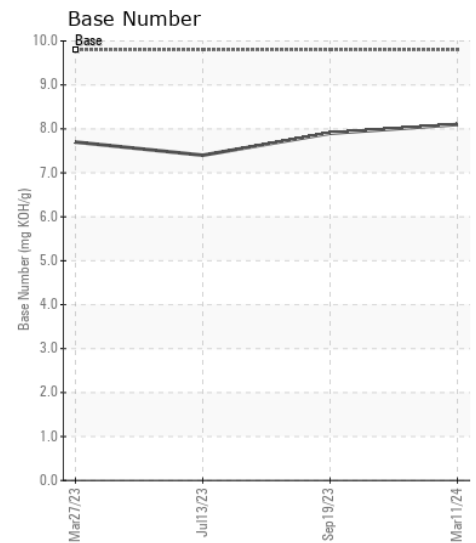
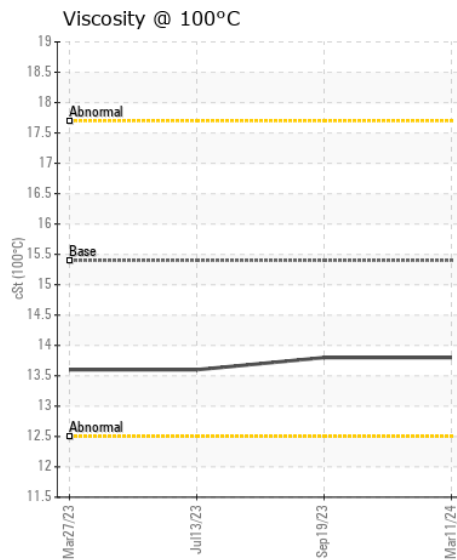
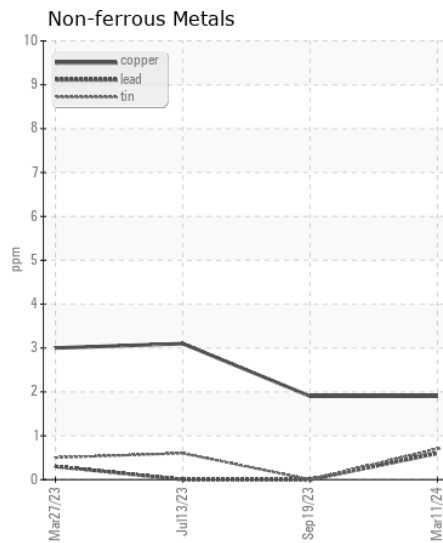
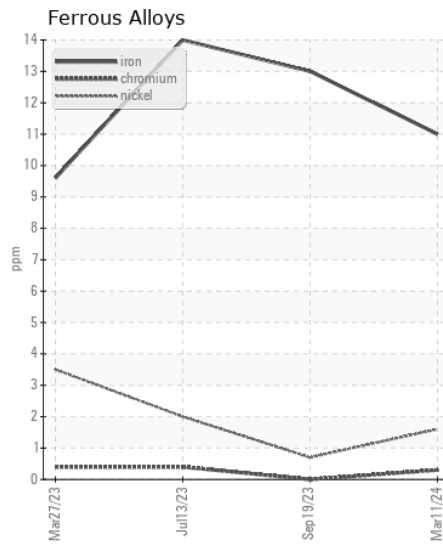
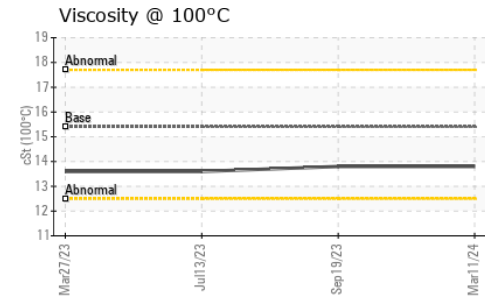
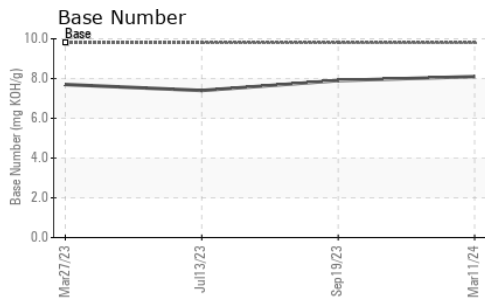
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>4</b>	4	4
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	18	1
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	>4	<b>0.3</b>	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.7</b>	7.7	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.2</b>	19.8	20.4
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>1</b>	9	4
Boron	ppm	ASTM D5185m	0	<b>3</b>	3	7
Barium	ppm	ASTM D5185m	0	<b>0</b>	12	0
Molybdenum	ppm	ASTM D5185m	60	<b>64</b>	62	61
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	1010	<b>974</b>	932	983
Calcium	ppm	ASTM D5185m	1070	<b>1123</b>	1165	1235
Phosphorus	ppm	ASTM D5185m	1150	<b>1027</b>	1006	1043
Zinc	ppm	ASTM D5185m	1270	<b>1292</b>	1210	1318
Sulfur	ppm	ASTM D5185m	2060	<b>3175</b>	3218	3612
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.5</b>	15.8	16.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.1</b>	7.9	7.4
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.8</b>	13.8	13.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : GFL0095938  
 Lab Number : 06122218  
 Unique Number : 10936369  
 Test Package : FLEET

Received : 19 Mar 2024  
 Tested : 20 Mar 2024  
 Diagnosed : 20 Mar 2024 - Wes Davis

**GFL Environmental - 916A - Suamico**  
 2300 Deerfield Ave E  
 Suamico, WI  
 US 54313  
 Contact: NICHOLAS WEIDNER  
 nweidner@gflenv.com

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: