

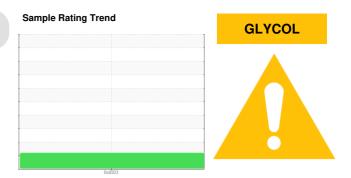




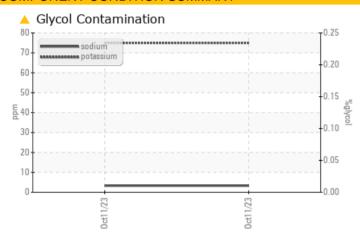
Machine Id 834052 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL			
Potassium	ppm	ASTM D5185m	>20	^ 75			

Customer Id: GFL836 **Sample No.:** GFL0095143 Lab Number: 05981065 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 ihester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

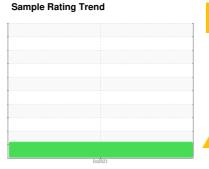


OIL ANALYSIS REPORT



Machine Id 834052 Component **Diesel Engine**

PETRO CANADA DURO





DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

Sodium and/or potassium levels are high. Test for glycol is negative.

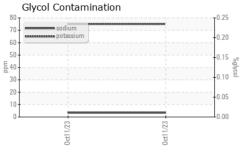
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

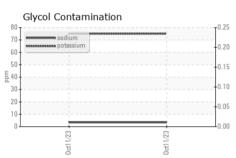
	- GAL)			Oct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0095143		
Sample Date		Client Info		11 Oct 2023		
Machine Age	hrs	Client Info		55		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
WEAR METALS	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	32		
Chromium	ppm	ASTM D5185m	>20	1		
Vickel	ppm	ASTM D5185m	>5	<1		
Titanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm		>20	17		
Lead		ASTM D5185m	>40	<1		
	ppm		>330	12		
Copper	ppm					
Γin (a.e. a.e.lia.e.a.e.	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	18		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	46		
Annannas				40		
viariganese	ppm	ASTM D5185m	0	10		
-	ppm ppm	ASTM D5185m ASTM D5185m	0 1010	-		
Magnesium				10		
Magnesium Calcium	ppm	ASTM D5185m	1010	10 649		
Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm	ASTM D5185m ASTM D5185m	1010 1070	10 649 1000		
Magnesium Calcium Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150	10 649 1000 618		
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270	10 649 1000 618 750		
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060	10 649 1000 618 750 1923		
Magnesium Calcium Phosphorus Zinc Gulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	1010 1070 1150 1270 2060 limit/base	10 649 1000 618 750 1923	 history1	 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Godium	ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base	10 649 1000 618 750 1923 current	 history1	 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base >25	10 649 1000 618 750 1923 current 29	 history1	 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base >25	10 649 1000 618 750 1923 current 29 3 75	 history1	 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m	1010 1070 1150 1270 2060 limit/base >25 >20	10 649 1000 618 750 1923 current 29 3 75 NEG	 history1	 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m *ASTM D5185m *ASTM D2982 method	1010 1070 1150 1270 2060 Iimit/base >25 >20	10 649 1000 618 750 1923	history1 history1	 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D5185m *ASTM D5185m *ASTM D5185m *ASTM D5185m *ASTM D7844	1010 1070 1150 1270 2060 Iimit/base >25 >20	10 649 1000 618 750 1923	history1 history1 history1	history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D5185m *ASTM D2982 Method *ASTM D7844 *ASTM D7624 *ASTM D76145	1010 1070 1150 1270 2060 Iimit/base >25 >20	10 649 1000 618 750 1923	history1 history1	history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration Sulfation	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D5185m *ASTM D2982 Method *ASTM D7844 *ASTM D7624 *ASTM D76145	1010 1070 1150 1270 2060 limit/base >25 >20 limit/base >4 >20 >30	10 649 1000 618 750 1923	history1 history1	history2 history2



OIL ANALYSIS REPORT



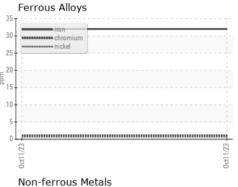
Viscosity @ 100°C
19 18 - Abnormal
17
(2) 16 + Base (2) 15 + (3) 14
Abnormal
111111111111111111111111111111111111111
041 1/23

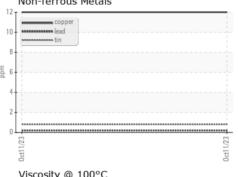


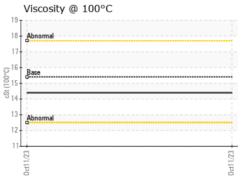
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		

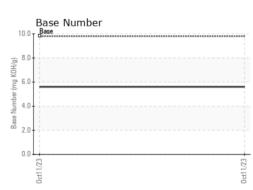
FLUID PROPE	RHES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.4		

GRAPHS











Laboratory Sample No. Lab Number Unique Number : 10698360

: GFL0095143 : 05981065

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received : 17 Oct 2023 : 19 Oct 2023 Diagnosed Diagnostician : Jonathan Hester

Test Package : FLEET (Additional Tests: Glycol)

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.

GFL Environmental - 836 - Kansas City Hauling

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)