WEAR
CONTAMINATION
FLUID CONDITION

NORMAL ABNORMAL ABNORMAL

Machine Id

227068-9

Component
Diesel Engine

PETRO CANADA DURON SHP 15W40 (4 GAL)							
RECOMMENDATION We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0118694	GFL0118644	GFL011872
	Sample Date		Client Info		28 May 2024	10 May 2024	22 Apr 202
	Machine Age	hrs	Client Info		20293	0	20081
	Oil Age	hrs	Client Info		400	600	400
	Filter Age	hrs	Client Info		400	600	400
	Oil Changed		Client Info		Not Changd	Not Changd	Not Chang
	Filter Changed		Client Info		Not Changd	Not Changd	0
	Sample Status				ABNORMAL	ATTENTION	ABNORMA
WEAR	Iron	ppm	ASTM D5185m	>80	17	13	7
All common and common materials	Chromium	ppm	ASTM D5185m	>5	2	3	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	<1	3	0
	Titanium	ppm	ASTM D5185m		<1	2	0
	Silver	ppm	ASTM D5185m	>3	<1	3	0
	Aluminum	ppm	ASTM D5185m	>30	2	3	1
	Lead	ppm	ASTM D5185m	>30	<1	3	0
	Copper	ppm	ASTM D5185m	>150	2	4	0
	Tin	ppm	ASTM D5185m	>5	<1	3	0
	Vanadium	ppm	ASTM D5185m		0	2	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	14	15	13
	Potassium	ppm	ASTM D5185m	>20	2	4	0
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Fuel	%	ASTM D3524	>5	7.2	<u> </u>	△ 5.4
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	8.2	8.7	8.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	19.1	18.6
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	5	4
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m	0	0	<1	1
	Barium	ppm	ASTM D5185m	0	<1	1	0
	Molybdenum	ppm	ASTM D5185m	60	61	58	61
	Manganese	ppm	ASTM D5185m	0	<1	2	<1
	Magnesium	ppm	ASTM D5185m	1010	952	895	994
	Calcium	ppm	ASTM D5185m	1070	1062	1007	1099
	Phosphorus	ppm	ASTM D5185m	1150	1046	992	1111
			ASTM D5185m	1270	1205	1149	1281
	Zinc	ppm		-			
	Sulfur	ppm	ASTM D5185m	2060	3121	3245	3587
		ppm Abs/.1mm		2060 >25			

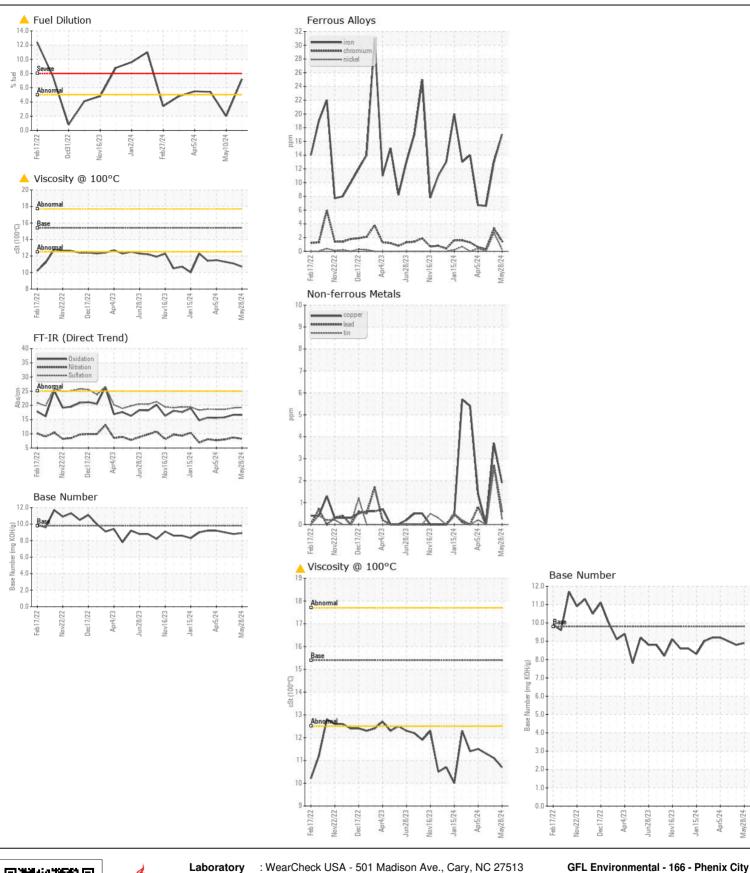
Visc @ 100°C cSt

11.1

10.7

ASTM D445 15.4

<u>11.3</u>







Certificate L2367

Laboratory Sample No.

: GFL0118694 Lab Number : 06196282

Unique Number : 11058405

Received : 31 May 2024 **Tested** : 05 Jun 2024 Diagnosed

: 05 Jun 2024 - Wes Davis Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

18 Old Brickyard Rd Phenix City, AL Contact: DEAN PEACE JR

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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US 36869

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