

OIL ANALYSIS REPORT

(EEY356) 10651

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (7 GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

Light fuel dilution occurring.

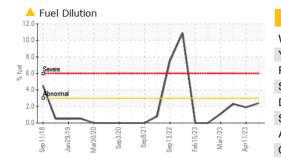
Fluid Condition

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 condition of the oil is suitable for further service.

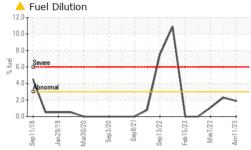
Sample Number Client Info GFL0109865 GFL0101213 GFL00097929 Sample Date Client Info 17 Jan 2024 20 Nov 2023 20 Nov	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 21065 20377 20515 Oil Age hrs Client Info 429 502 381 Oil Changed Client Info Not Changd Not Changd Not Changd Sample Status BMORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method >0.2 NEG NEG NEG Glycol WC Method Imit/base current history1 history2 Iron ppm ASTM D5185m >75 18 12 10 Chromium ppm ASTM D5185m >5 1 <1 <1 Nickel ppm ASTM D5185m >2 0 0 <1 Silver ppm ASTM D5185m >2 0 0 <1 Lead ppm ASTM D5185m >2 0 0 <1 Aluminum ppm AST	Sample Number		Client Info		GFL0109865	GFL0101213	GFL0097929
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ABNORMAL NORMAL NORMAL	Oil Age	hrs	Client Info		429	502	381
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Soot % % *ASTM D7844 >6 0.5 0.5 0.4 Nitration Abs/cm *ASTM D7624 >20 10.0 8.7 8.5 Sulfation Abs/.1mm *ASTM D7415 >30 20.1 19.9 19.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.6 16.0 15.5	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060 limit/base >25	4 0 58 <1 907 1012 1001 1214 2903 current 6 9 <1	7 0 60 <1 893 1042 1000 1209 2849 history1 6 9	6 0 58 <1 885 1069 920 1191 2822 history2 6 6 <1
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	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm	ASTM D5185m ASTM D7844 *ASTM D7844	0 0 60 0 1010 1150 1270 2060 limit/base >25 >20 >3.0 limit/base >6 >20	4 0 58 <1 907 1012 1001 1214 2903 current 6 9 <1 ▲ 2.4 current 0.5 10.0	7 0 60 <1 893 1042 1000 1209 2849 history1 6 9 0 <1.0 history1 0.5 8.7	6 0 58 <1 885 1069 920 1191 2822 history2 6 6 <1 <1.0 history2 0.4 8.5
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7614	0 0 0 0 1010 1150 1270 2060 limit/base >25 >20 >3.0 limit/base >6 >20 >30	4 0 58 <1 907 1012 1001 1214 2903 current 6 9 <1 ▲ 2.4 current 0.5 10.0 20.1	7 0 60 <1 893 1042 1000 1209 2849 history1 6 9 0 <1.0 history1 0.5 8.7 19.9	6 0 58 <1 885 1069 920 1191 2822 history2 6 6 6 <1 <1.0 history2 0.4 8.5 19.6
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRAE	ppm	ASTM D5185m ASTM D78185m ASTM D7824 *ASTM D7624 *ASTM D7415 method	0 0 0 1010 1070 1150 1270 2060 limit/base >25 >20 >3.0 limit/base >6 >20 >30 limit/base	4 0 58 <1 907 1012 1001 1214 2903 current 6 9 <1 ▲ 2.4 current 0.5 10.0 20.1 current	7 0 60 <1 893 1042 1000 1209 2849 history1 6 9 0 <1.0 history1 0.5 8.7 19.9 history1	6 0 58 <1 885 1069 920 1191 2822 history2 6 6 <1 <1.0 history2 0.4 8.5 19.6 history2

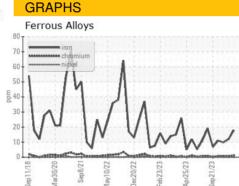


OIL ANALYSIS REPORT



VISUAL		metnoa	ilmit/base	current	nistory i	nistory2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
ELLUD DDODE	DTIES					
FLUID PROPE	RHES	method	limit/base	current	history1	history2

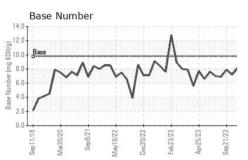


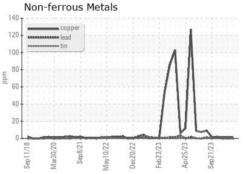


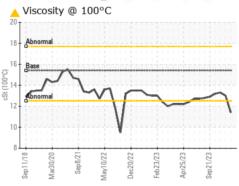
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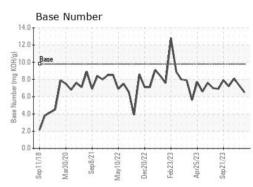
ASTM D445 15.4

Visc @ 100°C













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: 10836788

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0109865 : 06065406

Recieved Diagnosed

: 19 Jan 2024 : 23 Jan 2024

Diagnostician : Wes Davis

Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel) 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)

GFL Environmental - 010 - Stockbridge

1280 Rum Creek Parkway

Contact: JOSHUA TINKER

joshuatinker@gflenv.com

Stockbridge, GA

US 30281

T: F:

Report Id: GFL010 [WUSCAR] 06065406 (Generated: 01/23/2024 11:23:00) Rev: 1

13.3

13.0