

OIL ANALYSIS REPORT

NORMAL

Machine Id 929078-205275

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

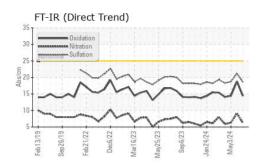
Fluid Condition

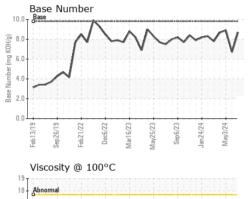
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

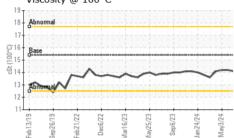
Sample Number Client Info GFL012304 GFL012304 GFL012304 GFL01139304 Sample Date Client Info 15 Jun 2024 24 May 2024 03 May 2024 Machine Age hrs Client Info 0 187 15140 Oll Age hrs Client Info 0 187 155 Oll Changed Client Info Changed Changed Changed Changed Sample Status I Nethod So <1.0 <1.0 NEG CONTAMINATION method Imit/base current history1 history2 Water WC Method >0.2 NEG NEG NEG Glycol WC Method >0 2 3 6 Chromium ppm ASTM05185 >100 2 3 6 Chromium ppm ASTM05185 >100 <1 0 1 Nickel ppm ASTM05185 >40 0 1 1 Nickel	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 5535 15327 15140 Oil Age hrs Client Info 0 187 155 Oil Changed Client Info 0 187 155 Oil Changed Client Info 0 187 155 Sample Status Client Info 0 187 15140 CONTAMINATION method Imit/base current NoRMAL NORMAL Water WC Method >5 <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Othomium ppm ASTM D5185 >20 0 0 <1 Nickel ppm ASTM D5185 >20 <1 2 2 Lead ppm ASTM D5185 >20 <1 2 2 Lead ppm ASTM D5185 >30 0 0 <1 1 Opper ppm ASTM D5185 >20 <1 <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>GFL0123004</th> <th>GFL0123034</th> <th>GFL0119380</th>	Sample Number		Client Info		GFL0123004	GFL0123034	GFL0119380
Oil Age Ins Client Info 0 187 155 Oil Changed Client Info Changed Changed Changed Sample Status ImitIbase current History1 History2 Fuel WC Method >5 <1.0 <1.0 <1.0 Water WC Method >0 REG NEG NEG Glycol WC Method >0 0 <1.0 <1.0 Water WC Method >0 2 3 6 Wear MEG NEG NEG NEG Nickel ppm ASTM D5185m >40 0 <1 0 Silver ppm ASTM D5185m >3 0 0 0 Copper ppm ASTM D5185m >30 <1 2 1 Tian ppm ASTM D5185m >30 <1 <1 <1 Copper ppm ASTM D5185m <0 <1 <1 1	Sample Date		Client Info		15 Jun 2024	24 May 2024	03 May 2024
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Sample Status NORMAL NORMAL NORMAL NORMAL CONTAMINATION method imit/base current history1 history2 Fuel WC Method >5 <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG NEG WEAR METALS method imit/base current history1 history2 Iron ppm ASTM D5165m >100 2 3 6 Chromium ppm ASTM D5165m >20 0 0 <1 Nickel ppm ASTM D5165m >3 0 0 0 1 Silver ppm ASTM D5165m >20 <1 2	Oil Age	hrs	Client Info		0	187	155
Sample Status NORMAL NORMAL NORMAL NORMAL CONTAMINATION method imit/base current history1 history2 Fuel WC Method >5 <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG NEG WEAR METALS method imit/base current history1 history2 Iron ppm ASTM D5165m >100 2 3 6 Chromium ppm ASTM D5165m >20 0 0 <1 Nickel ppm ASTM D5165m >3 0 0 0 1 Silver ppm ASTM D5165m >20 <1 2	Oil Changed		Client Info		Changed	Changed	Changed
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Water WC Method >0.2 NEG NEG NEG NEG NEG Glycol WC Method Imit/base current history1 history2 Iron ppm ASTM D5185m >100 2 3 6 Chromium ppm ASTM D5185m >20 0 0 <1 Nickel ppm ASTM D5185m >4 0 <1 0 Silver ppm ASTM D5185m >3 0 0 <1 1 Copper ppm ASTM D5185m >20 <1 2 1 1 Copper ppm ASTM D5185m >20 <1 2 1 1 Copper ppm ASTM D5185m >20 <1 <1 2 1 1 Cadminum ppm ASTM D5185m >0 <1 <1 1 2 1 1 Barium ppm ASTM D5185m 0 0 0	CONTAMINAT	ION	method	limit/base	current	history1	history2
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Nickel ppm ASTM D5185m >4 0 <1	-			>20			
Titanium ppm ASTM D5185m <1	Nickel				0	<1	0
Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >20 <1					-		
Aluminum ppm ASTM D5185m >20 <1	Silver			>3			
Lead ppm ASTM D5185m >40 0 <1					-		
Copper ppm ASTM D5185m >330 <1	Lead		ASTM D5185m		0	<1	<1
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Phosphorus ppm ASTM D5185m 1150 1077 1052 1105 Zinc ppm ASTM D5185m 1270 1342 1247 1227 Sulfur ppm ASTM D5185m 2060 3849 3648 3344 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 4 4 Sodium ppm ASTM D5185m >25 3 4 4 Sodium ppm ASTM D5185m >20 <11 3 2 Potassium ppm ASTM D5185m >20 <1 3 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.1 0.5 0.2 Nitration Abs/cm *ASTM D7624 >20 6.2 9.1 6.3 Sulfation Abs/tmm *ASTM D7415	Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60	18 0 64	17 0 59	11 0 60
Zinc ppm ASTM D5185m 1270 1342 1247 1227 Sulfur ppm ASTM D5185m 2060 3849 3648 3344 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 4 4 Sodium ppm ASTM D5185m >25 3 4 4 Sodium ppm ASTM D5185m >20 <11 3 2 Potassium ppm ASTM D5185m >20 <1 3 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.1 0.5 0.2 Nitration Abs/cm *ASTM D7624 >20 6.2 9.1 6.3 Sulfation Abs/1mm *ASTM D7415 >30 18.6 21.2 18.7 FLUID DEGRADATION method limit/base	Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0	18 0 64 <1	17 0 59 <1	11 0 60 0
Zinc ppm ASTM D5185m 1270 1342 1247 1227 Sulfur ppm ASTM D5185m 2060 3849 3648 3344 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 4 4 Sodium ppm ASTM D5185m >25 3 4 4 Sodium ppm ASTM D5185m >20 <11 3 2 Potassium ppm ASTM D5185m >20 <1 3 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.1 0.5 0.2 Nitration Abs/cm *ASTM D7624 >20 6.2 9.1 6.3 Sulfation Abs/.tmm *ASTM D7415 >30 18.6 21.2 18.7 FLUID DEGRADATION method limit/base	Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010	18 0 64 <1 1037	17 0 59 <1 968	11 0 60 0 951
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Silicon ppm ASTM D5185m >25 3 4 4 Sodium ppm ASTM D5185m >20 2 2 2 Potassium ppm ASTM D5185m >20 <1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070 1150	18 0 64 <1 1037 1156 1077	17 0 59 <1 968 1040 1052	11 0 60 0 951 1062 1105
Sodium ppm ASTM D5185m 2 2 2 Potassium ppm ASTM D5185m >20 <1 3 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.1 0.5 0.2 Nitration Abs/cm *ASTM D7624 >20 6.2 9.1 6.3 Sulfation Abs/.1mm *ASTM D7415 >30 18.6 21.2 18.7 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.4 18.8 14.4	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070 1150 1270	18 0 64 <1 1037 1156 1077 1342	17 0 59 <1 968 1040 1052 1247	11 0 60 0 951 1062 1105 1227
Potassium ppm ASTM D5185m >20 <1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060	18 0 64 <1 1037 1156 1077 1342 3849	17 0 59 <1 968 1040 1052 1247 3648	11 0 60 0 951 1062 1105 1227 3344
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.1 0.5 0.2 Nitration Abs/cm *ASTM D7624 >20 6.2 9.1 6.3 Sulfation Abs/.tmm *ASTM D7415 >30 18.6 21.2 18.7 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.tmm *ASTM D7414 >25 14.4 18.8 14.4	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 1010 1070 1150 1270 2060	18 0 64 <1 1037 1156 1077 1342 3849 current	17 0 59 <1 968 1040 1052 1247 3648 history1	11 0 60 0 951 1062 1105 1227 3344 history2
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Nitration Abs/cm *ASTM D7624 >20 6.2 9.1 6.3 Sulfation Abs/.1mm *ASTM D7415 >30 18.6 21.2 18.7 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.4 18.8 14.4	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 1010 1070 1150 1270 2060 limit/base	18 0 64 <1 1037 1156 1077 1342 3849 current 3 2	17 0 59 <1 968 1040 1052 1247 3648 history1 4 2	11 0 60 0 951 1062 1105 1227 3344 history2 4 2
Sulfation Abs/.1mm *ASTM D7415 >30 18.6 21.2 18.7 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.4 18.8 14.4	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 limit/base >25 >20	18 0 64 <1 1037 1156 1077 1342 3849 current 3 2 2 <1	17 0 59 <1 968 1040 1052 1247 3648 history1 4 2 3	11 0 60 0 951 1062 1105 1227 3344 history2 4 2 2
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.4 18.8 14.4	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 Imit/base >25	18 0 64 <1 1037 1156 1077 1342 3849 current 3 2 <1 <1	17 0 59 <1 968 1040 1052 1247 3648 history1 4 2 3 3 history1	11 0 60 0 951 1062 1105 1227 3344 history2 4 2 2 history2
Oxidation Abs/.1mm *ASTM D7414 >25 14.4 18.8 14.4	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 limit/base >25 >20 limit/base >3	18 0 64 <1 1037 1156 1077 1342 3849 current 3 2 <1 current 0.1	17 0 59 <1 968 1040 1052 1247 3648 history1 4 2 3 3 history1 0.5	11 0 60 0 951 1062 1105 1227 3344 history2 4 2 2 2 history2 0.2
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 <i>limit/base</i> >25 >20 <i>limit/base</i> >3 >20	18 0 64 <1 1037 1156 1077 1342 3849 <u>current</u> 3 2 <1 <u>current</u> 0.1 6.2	17 0 59 <1 968 1040 1052 1247 3648 history1 4 2 3 3 history1 0.5 9.1	11 0 60 0 951 1062 1105 1227 3344 history2 4 2 2 history2 0.2 6.3
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 imit/base >25 imit/base >3 >20	18 0 64 <1 1037 1156 1077 1342 3849 <u>current</u> 3 2 <1 <u>current</u> 0.1 6.2 18.6	17 0 59 <1 968 1040 1052 1247 3648 history1 4 2 3 3 history1 0.5 9.1 21.2	11 0 60 0 951 1062 1105 1227 3344 history2 4 2 2 <u>history2</u> 0.2 6.3 18.7
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7844	0 0 0 1010 1070 1150 2260 225 220 220 imit/base >3 >20 >30 3 imit/base	18 0 64 <1 1037 1156 1077 1342 3849 <i>current</i> 3 2 <1 <i>current</i> 0.1 6.2 18.6	17 0 59 <1 968 1040 1052 1247 3648 history1 4 2 3 3 history1 0.5 9.1 21.2 history1	11 0 60 0 951 1062 1105 1227 3344 history2 4 2 2 history2 0.2 6.3 18.7 history2



OIL ANALYSIS REPORT







VISUAL		method	limit/base	current	history1	history2
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
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	14.2	14.2
GRAPHS						

Ferrous Alloys

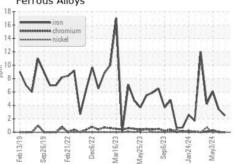
Non-ferrous Metals

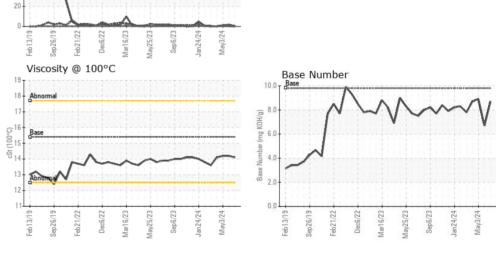
lead

120

100

80-Ed 60-40-





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 814 - Little Rock Hauling Sample No. : GFL0123004 Received : 24 Jun 2024 4005 Hwy 161 N. Lab Number : 06219163 Tested : 25 Jun 2024 LIttle Rock, AR Unique Number : 11097360 Diagnosed : 25 Jun 2024 - Wes Davis US 72117 Contact: Brad Koenig Test Package : FLEET Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. bkoenig@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Т: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Report Id: GFL814 [WUSCAR] 06219163 (Generated: 06/25/2024 16:59:12) Rev: 1

Submitted By: Nicole Walls Page 2 of 2