

OIL ANALYSIS REPORT

GLYCOL

Machine Id 3782 **Diesel Engine** Fluid PETRO CANADA DURON SHP 15W40 (11 GA

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: On 6/26/24 a resample was taken on this truck and sent in due to glycol showing in fluid. Oil and filter changed on 7/2/24)

Wear

All component wear rates are normal.

Contamination

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

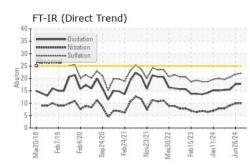
Fluid Condition

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

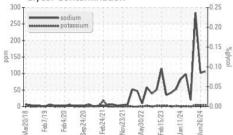
GAL)									
SAMPLE INFORM		method	limit/base	current	history1	history2			
			iiiiii/base						
Sample Number		Client Info Client Info		GFL0072205 03 Jul 2024	GFL0072167 26 Jun 2024	GFL0072172			
Sample Date	la va			03 JUI 2024 18589					
Machine Age	hrs	Client Info Client Info		602	18544 535	18402 405			
Dil Age	hrs	Client Info		602 Changed	Not Changd	Not Changd			
Dil Changed		Client Inio		ATTENTION	ATTENTION	ATTENTION			
Sample Status									
CONTAMINAT	ION	method	limit/base	current	history1	history2			
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0			
Vater		WC Method	>0.2	NEG	NEG	NEG			
WEAR METAL	S	method	limit/base	current	history1	history2			
ron	ppm	ASTM D5185m	>165	25	26	29			
Chromium	ppm	ASTM D5185m	>5	2	1	4			
Nickel	ppm	ASTM D5185m	>4	- <1	<1	<1			
Fitanium	ppm	ASTM D5185m	>2	1	<1	<1			
Silver	ppm	ASTM D5185m	>2	<1	<1	0			
Aluminum	ppm	ASTM D5185m	>20	3	3	2			
_ead	ppm	ASTM D5185m	>150	5	5	<1			
Copper	ppm	ASTM D5185m	>90	2	1	18			
Fin	ppm	ASTM D5185m	>5	<1	<1	<1			
/anadium	ppm	ASTM D5185m		<1	<1	0			
Cadmium	ppm	ASTM D5185m		<1	<1	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	6	5	4			
Barium	ppm		0	0	<1	0			
Nolybdenum	ppm	ASTM D5185m	60	71	75	70			
<i>M</i> anganese	ppm	ASTM D5185m	0	<1	<1	<1			
/lagnesium	ppm	ASTM D5185m	1010	1002	951	910			
Calcium	ppm	ASTM D5185m	1070	1173	1155	1082			
Phosphorus	ppm	ASTM D5185m	1150	1052	1043	1009			
Zinc	ppm	ASTM D5185m	1270	1331	1251	1217			
Sulfur	ppm	ASTM D5185m	2060	3057	2719	3121			
CONTAMINAN	TS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>35	11	11	11			
Sodium	ppm	ASTM D5185m		106	0 102	284			
Potassium	ppm	ASTM D5185m	>20	4	4	4			
Glycol	%	*ASTM D2982		NEG	NEG	NEG			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>7.5	0.6	0.6	0.6			
Nitration	Abs/cm	*ASTM D7644	>20	10.0	9.9	9.1			
Sulfation	Abs/.1mm	*ASTM D7024	>30	22.0	21.7	20.5			
FLUID DEGRAD			limit/base	current	history1	history2			
Dxidation	Abs/.1mm	*ASTM D7414	>25	17.8	17.7	15.5			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.4	7.6	8.0			

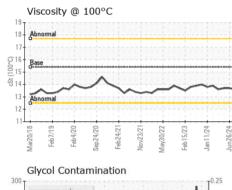


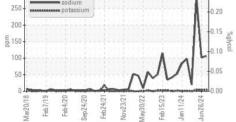
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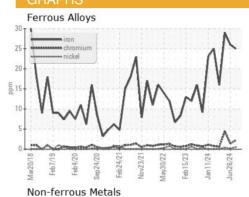


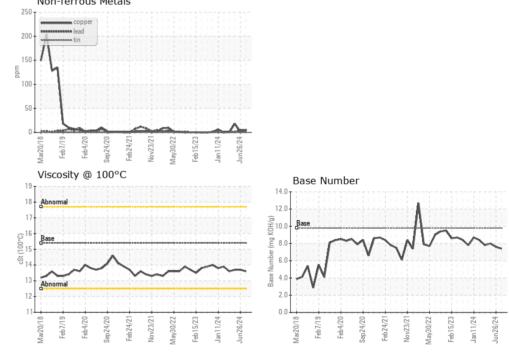






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	13.6	13.7	13.7
GRAPHS						





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 094 - Cedartown Sample No. : GFL0072205 Received : 08 Jul 2024 2097 Buchanan Highway Lab Number : 06229874 Tested : 10 Jul 2024 Cedartown, GA Unique Number : 11113367 Diagnosed : 10 Jul 2024 - Jonathan Hester US 30125 Test Package : FLEET (Additional Tests: Glycol) Contact: WILLIAM FOSTER Certificate 12367 william.foster@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. T: (800)207-6618 E:

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

Report Id: GFL094 [WUSCAR] 06229874 (Generated: 07/10/2024 11:29:18) Rev: 1

Submitted By: Darrell Welch

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