

OIL ANALYSIS REPORT

GLYCOL

3729 **Diesel Engine** Fluid PETRO CANADA DURON SHP 15W40 (10 GAL

DIAGNOSIS

Machine Id

Recommendation

Check for low coolant level. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Spare truck)

Wear

All component wear rates are normal.

Contamination

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

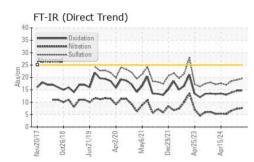
Fluid Condition

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

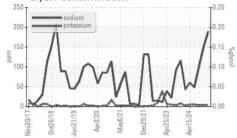
AL)		v2017 Oct20	18 Jun2019 Apr2020	May2021 Dec2021 Apr2023 /	Apr2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0125889	GFL0125894	GFL0125840
Sample Date		Client Info		09 Jul 2024	08 Jul 2024	01 Jul 2024
Machine Age	hrs	Client Info		18318	18318	18318
Oil Age	hrs	Client Info		600	600	39
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ATTENTION	ATTENTION	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	9	6	6
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>15	4	4	3
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>100	1	2	2
Tin	ppm	ASTM D5185m	>4	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	<1	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	68	65	64
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	1061	969	985
Calcium	ppm	ASTM D5185m	1070	1156	1108	1089
Phosphorus	ppm	ASTM D5185m	1150	1102	1056	1153
Zinc	ppm	ASTM D5185m	1270	1306	1248	1316
Sulfur	ppm	ASTM D5185m	2060	3854	2923	3955
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	8	8
Sodium	ppm	ASTM D5185m		<mark> </mark> 189	1 50	0100
Potassium	ppm		>20	4	4	3
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.4	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.6	7.3	6.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	19.0	18.5
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	14.6	13.9
Base Number (BN)	mg KOH/g	ASTM D7414 ASTM D2896	>25 9.8	9.5	8.7	9.4
Dase Multiper (DIN)	ing KOH/g	A9 I W D2090	9.0	9.0	0.7	5.4

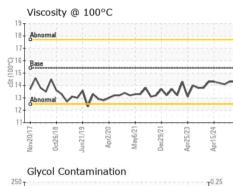


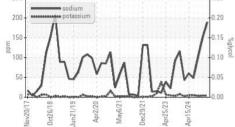
OIL ANALYSIS REPORT



Glycol Contamination

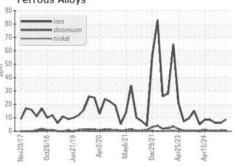


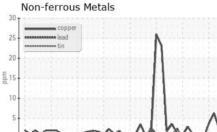


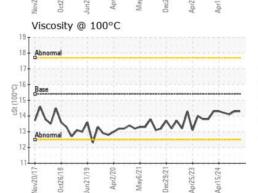


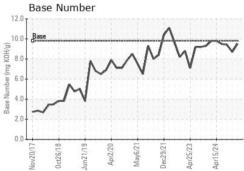
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	14.3	14.3	14.1
GRAPHS						

Ferrous Alloys









Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 166 - Phenix City Sample No. : GFL0125889 18 Old Brickyard Rd Received : 17 Jul 2024 Lab Number : 06238873 Tested : 18 Jul 2024 Phenix City, AL Unique Number : 11127707 Diagnosed : 18 Jul 2024 - Sean Felton US 36869 Test Package : FLEET (Additional Tests: Glycol) Contact: DEAN PEACE JR Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dean.peace@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Report Id: GFL166 [WUSCAR] 06238873 (Generated: 07/18/2024 16:58:16) Rev: 1

Submitted By: DEAN PEACE JR Page 2 of 2