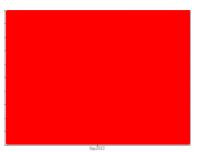


OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL



Machine Id **510014**

Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

Wear

Metal levels are typical for a components first oil change.

Contamination

Fuel content negligible. Test for glycol is positive. There is a high concentration of glycol present in the oil.

▲ Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable due to the presence of contaminants.

GAL)				Sep.2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0089023		
Sample Date		Client Info		22 Sep 2023		
Machine Age	hrs	Client Info		23992		
Oil Age	hrs	Client Info		23992		
Oil Changed		Client Info		Changed		
Sample Status				SEVERE		
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	12		
Chromium	ppm	ASTM D5185(m)	>20	<1		
Nickel	ppm	ASTM D5185(m)	>4	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	<1		
Aluminum	ppm	ASTM D5185(m)	>20	1		
Lead	ppm	ASTM D5185(m)	>40	7		
Copper	ppm	ASTM D5185(m)	>330	13		
Tin	ppm	ASTM D5185(m)	>15	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	<u>41</u>		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	60	49		
Manganese	ppm	ASTM D5185(m)	0	0		
Magnesium	ppm	ASTM D5185(m)	1010	482		
Calcium	ppm	ASTM D5185(m)	1070	<u> </u>		
Phosphorus	ppm	ASTM D5185(m)	1150	<u>▲</u> 685		
Zinc	ppm	ASTM D5185(m)	1270	<u>A</u> 814		
Sulfur	ppm	ASTM D5185(m)	2060	1933		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN [*]	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	10		
Sodium	ppm	ASTM D5185(m)		△ 66		
Potassium	ppm	ASTM D5185(m)	>20	<u> </u>		
Fuel	%	ASTM D7593*	>5	0.9		
Glycol	%	ASTM D7922*		0.198		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0		
Nitration	Abs/cm	ASTM D7624*	>20	5.0		
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.9		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.6		



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: GFL0089023

Received Diagnosed : 25 Sep 2023 : 26 Sep 2023

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 207 - Pickering SW 1034 TOY AVENUE, PICKERING YARD PICKERING, ON

: 02584865 Diagnostician : Wes Davis : 5645930 Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, PercentFuel)

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

CA L1W 3P1 Contact: Ian Patton ipatton@gflenv.com T: (905)831-6297 F: (905)426-3577