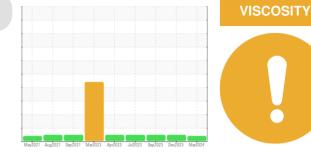


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

422026-402278 Component Diesel Engine

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

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0106202	GFL0106100	GFL0078637
Oil and filter change at the time of sampling has	Sample Date		Client Info		25 Mar 2024	26 Dec 2023	27 Sep 2023
been noted. Resample at the next service interval	Machine Age	hrs	Client Info		7438	6982	6418
to monitor.	Oil Age	hrs	Client Info		456	600	600
Wear	Oil Changed		Client Info		Changed	Changed	Changed
All component wear rates are normal.	Sample Status				ATTENTION	NORMAL	NORMAL
Contamination Fuel content negligible. There is no indication of	CONTAMINAT	ION	method	limit/base	current	history1	history2
any contamination in the oil.	Water		WC Method	>0.2	NEG	NEG	NEG
Fluid Condition	Glycol		WC Method		NEG	NEG	NEG
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in	WEAR METAL	.S	method	limit/base		history1	history2
ne oil. Confirm oil type.	Iron	ppm	ASTM D5185m		9	4	4
	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m		2	0	1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>20	4	2	2
	Lead	ppm	ASTM D5185m	>40	<1	<1	<1
	Copper	ppm	ASTM D5185m	>330	4	<1	1
	Tin	ppm	ASTM D5185m	>15	<1	2	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	Cadmium	ppm	ASTM D5185m		<1	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	1	4	5
	Barium	ppm	ASTM D5185m	0	<1	0	0
	Molybdenum	ppm	ASTM D5185m	60	59	56	60
	Manganese	ppm	ASTM D5185m	0	<1	0	<1
	Magnesium	ppm	ASTM D5185m	1010	851	911	904
	Calcium	ppm	ASTM D5185m	1070	1070	1013	1019
	Phosphorus	ppm	ASTM D5185m	1150	920	1019	1003
	Zinc	ppm	ASTM D5185m	1270	1140	1265	1213
	Sulfur	ppm	ASTM D5185m		2860	3181	3117
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	5	3	4
	Sodium	ppm	ASTM D5185m		6	<1	1
	Potassium	ppm	ASTM D5185m	>20	2	<1	<1
	Fuel	%	ASTM D3524	>3.0	0.0	<1.0	<1.0
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.4	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624		9.7	8.5	7.1
	Sulfation	Abs/.1mm	*ASTM D7415		21.1	19.3	18.2
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	15.7	14.6
	Dese Negelsen (DN)					0.5	0.0

Base Number (BN) mg KOH/g ASTM D2896 9.8

8.6

6.5

5.2



(mg KOH/g)

mber

Base

OIL ANALYSIS REPORT



7580 PHILIPS HWY Jacksonville, FL US 32256 Contact: GRANVILLE CARROLL gcarroll@gflenv.com T: 1(904)252-6815 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) E:

Apr11/23

124/73 ep27/23

Report Id: GFL152 [WUSCAR] 06133870 (Generated: 04/05/2024 15:17:49) Rev: 1

Submitted By: Eric Thomas Page 2 of 2

Dec26/23

/ar25/24

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

13.2