

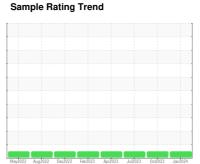
OIL ANALYSIS REPORT



(BD17484) 910094 Component

Diesel Engine

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





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Service completed)

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

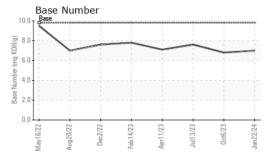
Fluid Condition

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

			Aug2022 Dec2022 Feb20	·		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0094881	GFL0088293	GFL0077499
Sample Date		Client Info		22 Jan 2024	06 Oct 2023	13 Jul 2023
Machine Age	hrs	Client Info		4316	3748	3174
Oil Age	hrs	Client Info		574	581	608
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	TION	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
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	14	14	17
Chromium	ppm	ASTM D5185m	>20	1	0	<1
Nickel	ppm	ASTM D5185m	>5	1	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	3	1	2
Lead	ppm	ASTM D5185m	>40	1	<1	<1
Copper	ppm	ASTM D5185m	>330	4	3	6
Tin	ppm	ASTM D5185m	>15	1	0	1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	2	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	62	64
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	912	925	1021
Calcium	ppm	ASTM D5185m	1070	1043	1045	1187
Phosphorus	ppm	ASTM D5185m	1150	930	881	965
Zinc	ppm	ASTM D5185m	1270	1168	1167	1280
Sulfur	ppm	ASTM D5185m	2060	2806	2411	3081
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	7	6
Sodium	ppm	ASTM D5185m		13	13	5
Potassium	ppm	ASTM D5185m	>20	4	2	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.6	0.5	0.7
Nitration	Abs/cm	*ASTM D7624	>20	8.3	7.7	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	19.0	21.1
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	14.9	17.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.0	6.8	7.6
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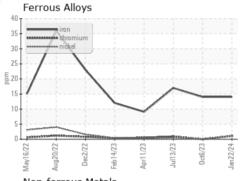


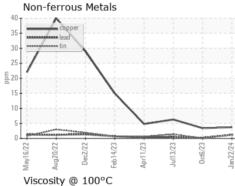
Visc	osity @	0 100°	С				
18 - Abno	rmal-						
17- ©16- p							
(2) 16 Base 015 Base							
13 - ******							
12-							
11 72/9	0/22	2/22 -	4/23 -	1/23 -	3/23 -	6/23 -	_
May16/2	Aug2	Dec	Feb1	April		Oct	

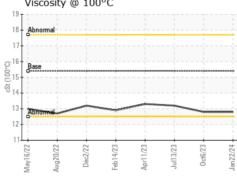
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

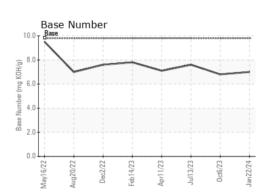
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	12.8	13.2

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10847634 Test Package : FLEET

: GFL0094881 : 06070957

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 25 Jan 2024

Diagnosed : 29 Jan 2024 Diagnostician : Don Baldridge GFL Environmental - 625 - Harrison Hauling

4102 Industrial Pkwy Harrison, MI US 48625

Contact: Glenda Standen

gstanden@gflenv.com T:

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.

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

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