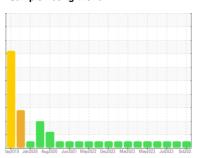


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id
2824
Component
Diesel Engine
Fluid

## PETRO CANADA DURON SHP 15W40 (40 GAL)

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil

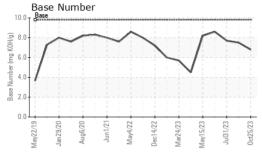
## **Fluid Condition**

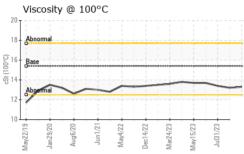
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)  1m/2019 Jan/2020 Jan/2020 Jan/2020 Jan/2021 May/2022 Dac/2022 Mac/2023 May/2023 Jul/2023 Oct/202							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0099051	GFL0088416	GFL0088391	
Sample Date		Client Info		25 Oct 2023	29 Aug 2023	31 Jul 2023	
Machine Age	hrs	Client Info		8222	8061	7797	
Oil Age	hrs	Client Info		7797	7797	7282	
Oil Changed		Client Info		Changed	N/A	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS method limit/base current history1 history2							
Iron	ppm	ASTM D5185m	>165	22	17	13	
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	0	0	
Titanium	ppm	ASTM D5185m	>2	0	0	0	
Silver	ppm	ASTM D5185m	>2	<1	0	0	
Aluminum	ppm	ASTM D5185m	>20	3	2	4	
Lead	ppm	ASTM D5185m	>150	1	0	0	
Copper	ppm		>90	8	6	2	
Tin	ppm	ASTM D5185m	>5	<1	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<1	0	<1	
Barium	ppm	ASTM D5185m	0	4	0	0	
Molybdenum	ppm	ASTM D5185m	60	60	57	61	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	877	913	994	
Calcium	ppm	ASTM D5185m	1070	1088	1067	1151	
Phosphorus	ppm	ASTM D5185m	1150	1014	993	1086	
Zinc	ppm	ASTM D5185m	1270	1203	1235	1322	
Sulfur	ppm	ASTM D5185m	2060	3247	3442	3717	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>35	5	4	7	
Sodium	ppm	ASTM D5185m		1	5	3	
Potassium	ppm	ASTM D5185m	>20	9	5	4	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>7.5	0.4	0.3	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	9.1	8.2	7.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	20.6	19.8	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	16.2	15.3	
Base Number (BN)	mg KOH/g	ASTM D2896		6.8	7.5	7.7	
= 1.00 . (B14)	9		5.0	<b></b>			



# **OIL ANALYSIS REPORT**

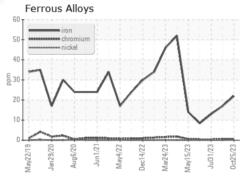


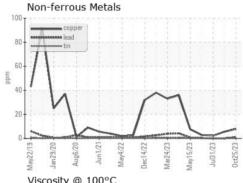


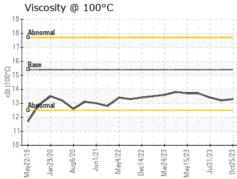
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

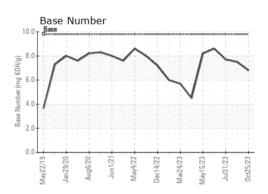
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.2	13.4	

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: GFL0099051 : 05994906

: 10723266

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 31 Oct 2023

: 01 Nov 2023 Diagnosed Diagnostician : Wes Davis

GFL Environmental - 084 - Clarksville

699 Jack Miller Boulevard Clarksville, TN US 37042

Contact: ROBERT THIBAULT

robert.thibault@gflenv.com T: (931)552-7276

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)

F: (931)572-9674