

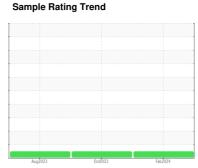
# **OIL ANALYSIS REPORT**



(TB7370)
Machine Id
912100
Component

Diesel Engine

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





# DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Moor

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil

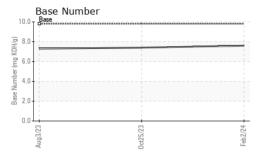
### **Fluid Condition**

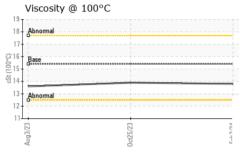
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Aut	12023	Oct2023 Feb20		
SAMPLE INFO	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0067037	GFL0066989	GFL0066974
Sample Date		Client Info		02 Feb 2024	25 Oct 2023	03 Aug 2023
Machine Age	hrs	Client Info		4149	3439	2888
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status		Oliciti iiilo		NORMAL	NORMAL	NORMAL
	ATION	method	limit/base	current		history2
	ATION				history1	
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water			>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR META	ALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	15	13	15
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>5	2	2	1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	<1	2	2
Lead	ppm	ASTM D5185m	>40	<1	0	1
Copper	ppm		>330	4	4	4
Tin		ASTM D5185m	>15	1	<1	1
Vanadium	ppm	ASTM D5185m	>10	0	0	0
	ppm			-	0	0
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	10	3	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	68	61	61
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	1018	922	931
Calcium	ppm	ASTM D5185m	1070	1171	1076	1134
Phosphorus	ppm	ASTM D5185m	1150	1006	871	977
Zinc	ppm	ASTM D5185m	1270	1290	1223	1268
Sulfur	ppm	ASTM D5185m	2060	2806	2746	3254
CONTAMINA	ANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	3	4
Sodium	ppm	ASTM D5185m		0	0	2
Potassium	ppm	ASTM D5185m	>20	2	3	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.8	0.8	0.8
Nitration	Abs/cm	*ASTM D7624	>20	8.2	8.1	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	21.4	20.5
FLUID DEGR	ADATIO <u>N</u>	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	16.6	16.0
Base Number (BN		ASTM D7414		7.6	7.4	7.3
Dase Mullipel (DI	IIIg NOT/g	79 LINI D5030	3.0	7.0	7.4	7.0



# **OIL ANALYSIS REPORT**

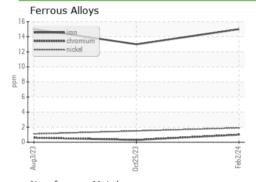


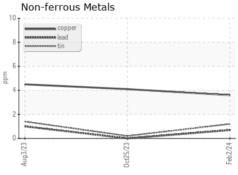


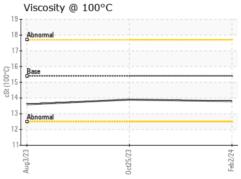
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

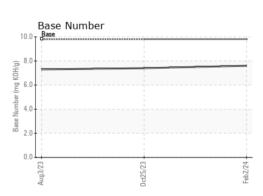
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.9	13.6	

## **GRAPHS**













Laboratory Sample No. Lab Number : 06085229

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0067037 Unique Number : 10872674 Test Package : FLEET

Received **Tested** Diagnosed

: 09 Feb 2024 : 12 Feb 2024 : 12 Feb 2024 - Wes Davis

GFL Environmental - 916 - Greenbay HC

1799 County Trunk PP DePere, WI US 54115

Contact: Travis Runge travis.runge@gflenv.com T: (920)351-2341

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)

Report Id: GFL916 [WUSCAR] 06085229 (Generated: 02/12/2024 09:56:06) Rev: 1

Contact/Location: Travis Runge - GFL916