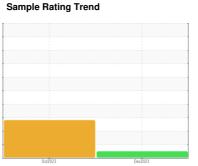


# **OIL ANALYSIS REPORT**



**NORMAL** 



Machine Id **222052-670474** 

Component

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (--- G

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

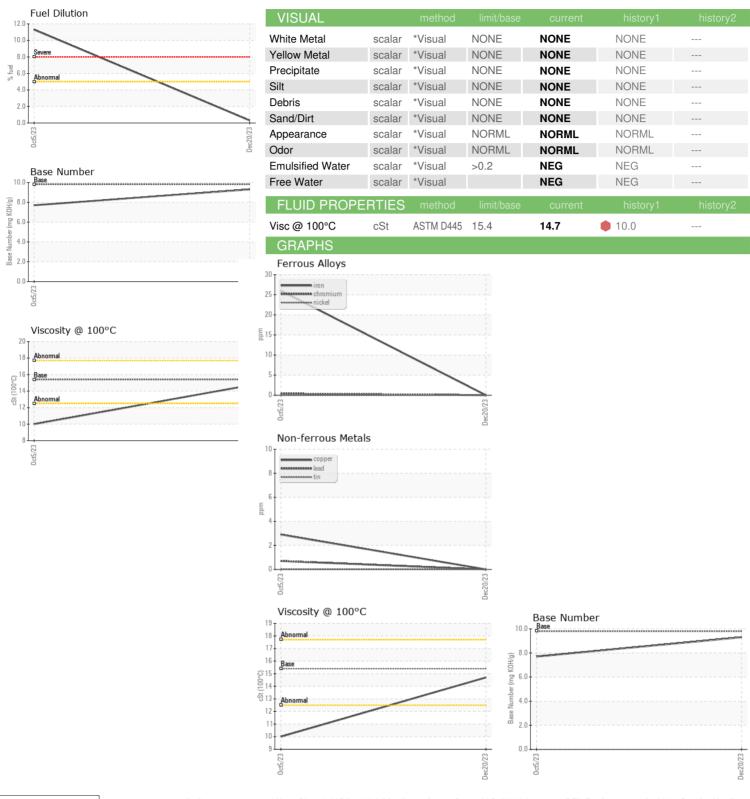
### **Fluid Condition**

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

AL)			0et2023	Dec2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0105160	GFL0090163	
Sample Date		Client Info		20 Dec 2023	05 Oct 2023	
Machine Age	mls	Client Info		183665	175968	
Dil Age	mls	Client Info		5000	6000	
Oil Changed		Client Info		Not Changd	Changed	
Sample Status				NORMAL	SEVERE	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Vater		WC Method	>0.2	NEG	NEG	
Slycol		WC Method	70.2	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
		ASTM D5185m	>100	0	26	
on Shramium	ppm		>100	-		
Chromium	ppm	ASTM D5185m	. = -	0	<1	
lickel	ppm	ASTM D5185m	>2	0	0	
ītanium	ppm	ASTM D5185m	>2	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
lluminum	ppm	ASTM D5185m	>25	<1	8	
ead	ppm	ASTM D5185m	>40	0	<1	
Copper	ppm		>330	0	3	
in	ppm	ASTM D5185m	>15	0	0	
/anadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	5	
Barium	ppm	ASTM D5185m	0	0	0	
Nolybdenum	ppm	ASTM D5185m	60	53	50	
Manganese	ppm	ASTM D5185m	0	0	<1	
Magnesium	ppm	ASTM D5185m	1010	934	769	
Calcium	ppm	ASTM D5185m	1070	983	846	
hosphorus	ppm	ASTM D5185m	1150	1047	843	
inc	ppm	ASTM D5185m	1270	1238	1057	
Sulfur	ppm	ASTM D5185m	2060	3139	2878	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	8	
Sodium	ppm	ASTM D5185m		2	39	
Potassium	ppm	ASTM D5185m	>20	0	6	
uel	%	ASTM D3524	>5	0.3	11.3	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0	0.9	
Nitration	Abs/cm	*ASTM D7624	>20	4.1	7.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.5	20.2	
FLUID DEGRA	DAT <u>ION</u>	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.8	15.6	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.3	7.7	
Dade Hamber (DIV)	mg Noring	, 10 TW D2000	0.0	3.0	1.1	



## **OIL ANALYSIS REPORT**





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: GFL0105160 : 06042863

: 10803471

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 22 Dec 2023 Diagnosed

: 27 Dec 2023 Diagnostician : Wes Davis

Test Package : FLEET ( Additional Tests: PercentFuel ) 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)

GFL Environmental - 821 - Ozarks Hauling

33924 Olath Drive Lebanon, MO US 65536 Contact: Landen Johnson

landen.johnson@gflenv.com T: (417)664-0010