

# **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL



Machine Id 101014 Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- 0

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

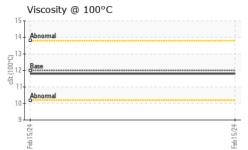
### **Fluid Condition**

The condition of the oil is acceptable for the time in service.

iAL)				Feb2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0107913		
Sample Date		Client Info		15 Feb 2024		
Machine Age	hrs	Client Info		16124		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	5		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>4	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	0		
Aluminum	ppm	ASTM D5185(m)	>20	3		
_ead	ppm	ASTM D5185(m)	>40	0		
Copper	ppm	ASTM D5185(m)	>330	1		
Γin	ppm	ASTM D5185(m)	>15	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	12		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	50	64		
Manganese	ppm	ASTM D5185(m)	0	0		
Magnesium	ppm	ASTM D5185(m)	950	696		
Calcium	ppm	ASTM D5185(m)	1050	1319		
Phosphorus	ppm	ASTM D5185(m)	995	1020		
Zinc	ppm	ASTM D5185(m)	1180	1127		
Sulfur	ppm	ASTM D5185(m)	2600	2882		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAL	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4		
Sodium	ppm	ASTM D5185(m)		4		
Potassium	ppm	ASTM D5185(m)	>20	3		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0		
Nitration	Abs/cm	ASTM D7624*	>20	5.9		
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.3		



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FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.6		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual* Visual*	NONE NORML	NONE NORML		
Appearance Odor	scalar scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*	>0.2	NEG		
Free Water	scalar	Visual*	70.2	NEG		
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
/isc @ 100°C	cSt	ASTM D7279(m)	12.00	11.8		
GRAPHS						
Iron (ppm)				Lead (ppm)		
Severe			100	Severe		
-						
Abnormal			Ed 40	Abnormal		
-			20	1:		
5/24			5/24	15/24		
Feb15/24			Feb15/24	Feb		
Aluminum (ppm)				Chromium (p	pm)	
Severe			50	Severe		
				+		
Abnormal			E 30 ≥ 20	Abnormal		
			10			
Feb15/24			Feb15/24	Feb 15/24		
9			Feb	Feb		
Copper (ppm)			80	Silicon (ppm)		
Severe Capitotimal			60			
l i			E 40	I		
			20	Abnormal		
			0			
Feb15/24			Feb15/24	Feb15/24		
			율			
Viscosity @ 100°C			6.0	Soot %		
Abnormal				Severe		
Base Abnormal			2.0 est 0	Abnormal		
Abnormal			∞ 2.0	-		
1 ·				L -		



**CALA** ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02616921 Unique Number : 5734031

: GFL0107913 Received

**Tested** Diagnosed

: 21 Feb 2024 : 21 Feb 2024

: 21 Feb 2024 - Wes Davis

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 350 - Emeral Park Regina 2B Industrial Drive,, Great Plains Industrial Park, Emerald Park, SK CA S4L 1B6

Contact: Vaughn Hortness vhortness@gflenv.com T: (877)244-9500 F: (306)244-9501

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Test Package : MOB 1 (Additional Tests: Visual)

Validity of results and interpretation are based on the sample and information as supplied.