

## **OIL ANALYSIS REPORT**

### Sample Rating Trend





Machine Id **833113** Component

**Natural Gas Engine** 

PETRO CANADA DURON

# 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.

GEO LD 15W40 (			May2023	Oct2023		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0097648	GFL0077995	
Sample Date		Client Info		15 Oct 2023	16 May 2023	
Machine Age	days	Client Info		0	443	
Oil Age	days	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
on	ppm	ASTM D5185(m)	>50	24	54	
Chromium	ppm	ASTM D5185(m)	>5	1	1	
lickel	ppm	ASTM D5185(m)	>4	1	1	
itanium	ppm	ASTM D5185(m)	>5	0	<1	
ilver	ppm	ASTM D5185(m)	>3	<1	1	
luminum	ppm	ASTM D5185(m)	>25	5	6	
ead	ppm	ASTM D5185(m)	>40	1	2	
Copper	ppm	ASTM D5185(m)	>150	5	20	
in	ppm	ASTM D5185(m)	>4	<1	1	
ntimony	ppm	ASTM D5185(m)		0	0	
anadium	ppm	ASTM D5185(m)		0	0	
eryllium	ppm	ASTM D5185(m)		0	0	
admium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	50	6	12	
arium	ppm	ASTM D5185(m)	5	<1	3	
1olybdenum	ppm	ASTM D5185(m)	50	61	55	
langanese	ppm	ASTM D5185(m)	0	2	12	
lagnesium	ppm	ASTM D5185(m)	560	663	820	
alcium	ppm	ASTM D5185(m)	1510	1778	1305	
hosphorus	ppm	ASTM D5185(m)	780	785	748	
inc	ppm	ASTM D5185(m)	870	1002	874	
ulfur	ppm	ASTM D5185(m)	2040	2008	1947	
ithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANT	S	method	limit/base	current	history1	history2
ilicon	ppm	ASTM D5185(m)	>25	11	38	
odium	ppm	ASTM D5185(m)		11	5	
otassium	ppm	ASTM D5185(m)	>20	5	8	
Glycol	%	ASTM D7922*		0.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0	0	
litration	Abs/cm	ASTM D7624*	>20	12.5	12.7	
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.2	23.6	
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2

Oxidation

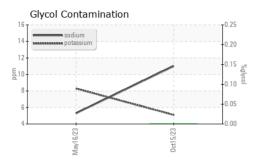
Abs/.1mm ASTM D7414\* >25

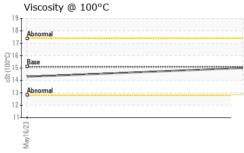
20.9

22.1



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VISUAL		method				history2
White Metal	scalar	Visual*	NONE	VLITE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	VLITE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML	NORML	
<b>Emulsified Water</b>	scalar	Visual*	>0.1	NEG	NEG	
Free Water	scalar	Visual*		NEG	NEG	
FLUID PROPE	RTIES	method	limit/base	current	history1	history2

	FLUID PROPE	ERTIES	method	limit/bas	e current	history1	history2
	Visc @ 100°C	cSt	ASTM D7279(m)	15.1	15.0	14.3	
	GRAPHS						
10 8 8 6 4 2	Abnormal PS23 Level			0ct15/23	Lead (ppm)  Severe  Abnormal  20  Classification (according to the control of the		0415/23
5	1				Chromium (p	·pm)	
4 Ed 2	O+ Abnormal				10 Severe  8 Abnormal		
30	Copper (ppm)			0ct15/23	Silicon (ppm)		Oct15/23 +
25	0 -				40		
20 E 15 10 5	Abnormal			Oct15/23	Abnomal 20 CZG 16 kg		0et15/23
2	Viscosity @ 100°	C		2	Additives		
1 CSt (100°C) 1	Abnormal			### & ### ### ### ### ################	calcium phosphon 2inc	JS	***************************************
1	May16/23 <del>T</del>			0ct15/23	200 May16/23 <del></del>		Oct 15/23



CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number : 5658280

: 02589214

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW : GFL0097648

Received Diagnosed

: 16 Oct 2023 Diagnostician : Kevin Marson

: 16 Oct 2023 Test Package : MOB 1 ( Additional Tests: Glycol, Visual )

8409 -15th Street NW Edmonton, AB CA T6P 0B8 Contact: Antonio De Rosa aderosa@gflenv.com T: (780)509-2640

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

F: (780)444-8851