

# **OIL ANALYSIS REPORT**

(HM8605) 924000

Diesel Engine

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

# Sample Rating Trend



# 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

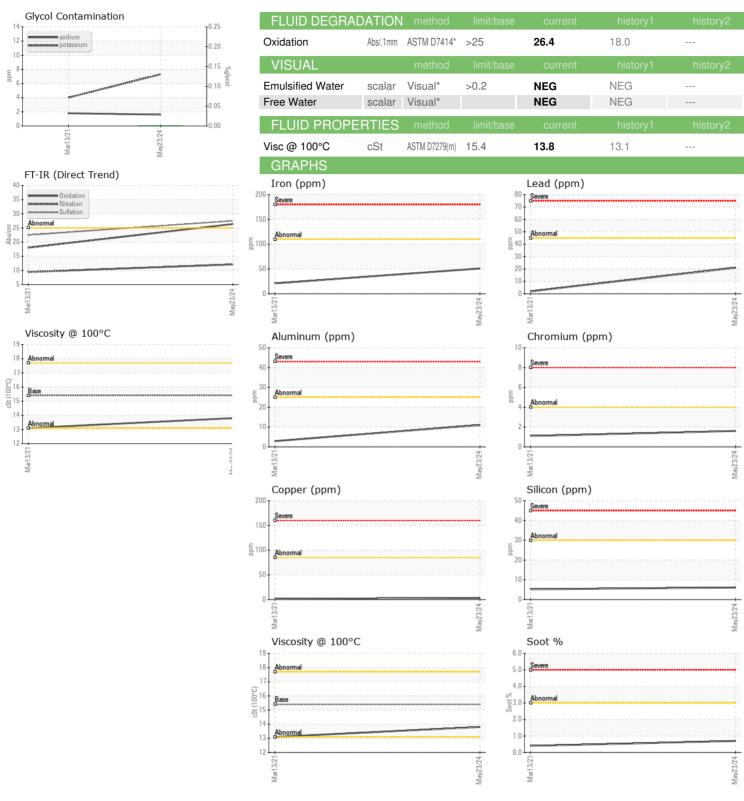
# **Fluid Condition**

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

AL)		L	Mar2021	May2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0029321	GFL0020083	
Sample Date		Client Info		23 May 2024	13 Mar 2021	
Machine Age	hrs	Client Info		18133	13836	
Oil Age	hrs	Client Info		900	529	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	0.1	
Water		WC Method	>0.2	NEG	NEG	
WEAR META	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>110	51	21	
Chromium	ppm	ASTM D5185(m)	>4	2	1	
Vickel	ppm	ASTM D5185(m)	>2	0	0	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)	>2	0	<1	
Aluminum	ppm	ASTM D5185(m)	>25	11	3	
_ead	ppm	ASTM D5185(m)	>45	21	2	
Copper	ppm	ASTM D5185(m)	>85	3	1	
-in	ppm	ASTM D5185(m)	>4	1	<1	
Antimony	ppm	ASTM D5185(m)		0	<1	
/anadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	5	16	
Barium	ppm	ASTM D5185(m)		0	0	
Molybdenum	ppm	ASTM D5185(m)	60	66	57	
Manganese	ppm	ASTM D5185(m)	0	<1	<1	
Magnesium	ppm	ASTM D5185(m)	1010	1079	931	
Calcium	ppm	ASTM D5185(m)	1070	1269	1157	
Phosphorus	ppm	ASTM D5185(m)	1150	1134	1014	
Zinc	ppm	ASTM D5185(m)	1270	1264	1290	
Sulfur		ASTM D5185(m)	2060	2310	2615	
ithium	ppm	ASTM D5185(m)	2000	<1	<1	
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	6	5	
Sodium	ppm	ASTM D5185(m)		2	2	
Potassium	ppm	ASTM D5185(m)	>20	7	4	
Glycol	%	ASTM D7922*		0.0	NEG	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.7	0.4	
Vitration	Abs/cm	ASTM D7624*	>20	12.1	9.4	
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.5	22.5	



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 571 - Cranbrook Hauling TS LF

: GFL0029321 Lab Number : 02638793 Unique Number : 5787955

Received **Tested** Diagnosed

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

: 31 May 2024 Test Package : MOB 1 ( Additional Tests: Glycol )

: 30 May 2024

: 31 May 2024 - Kevin Marson

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Cranbrook, BC CA V1C 5X5 Contact: Michael Miles mmiles@gflenv.com T: (250)417-3607 F: (250)417-3617

1425 Industrial Road 2

Validity of results and interpretation are based on the sample and information as supplied. Report Id: GFL571 [WCAMIS] 02638793 (Generated: 05/31/2024 09:04:01) Rev: 1

Contact/Location: Michael Miles - GFL571