

# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id 101014 Component Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- GAL

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

#### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

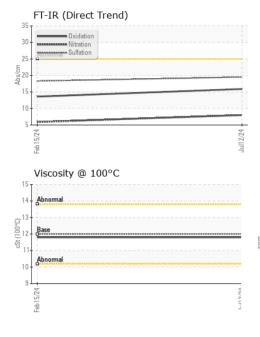
### **Fluid Condition**

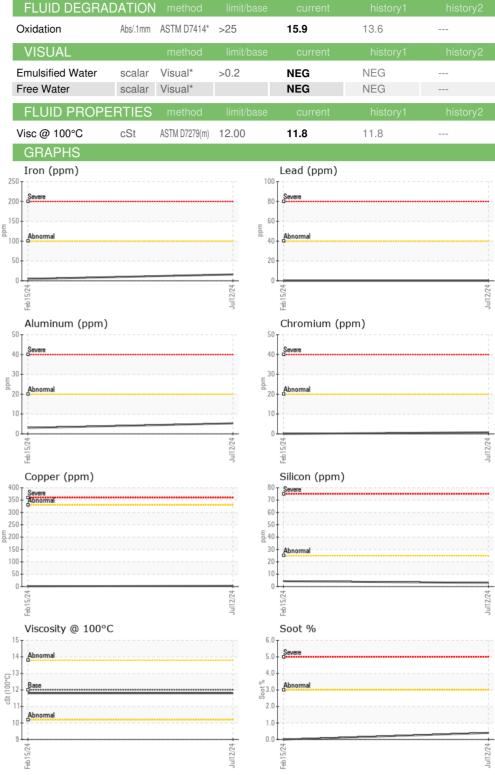
The condition of the oil is acceptable for the time in service.

GAL)			Feb2024	Jul2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116403	GFL0107913	
Sample Date		Client Info		12 Jul 2024	15 Feb 2024	
Machine Age	hrs	Client Info		16653	16124	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	16	5	
Chromium	ppm	ASTM D5185(m)	>20	<1	0	
Nickel	ppm	ASTM D5185(m)	>4	<1	0	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)	>3	0	0	
Aluminum	ppm	ASTM D5185(m)	>20	5	3	
Lead	ppm	ASTM D5185(m)	>40	0	0	
Copper	ppm	ASTM D5185(m)	>330	3	1	
Tin	ppm	ASTM D5185(m)	>15	0	0	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	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)	2	6	12	
Barium	ppm	ASTM D5185(m)	0	0	0	
Molybdenum	ppm	ASTM D5185(m)	50	64	64	
Manganese	ppm	ASTM D5185(m)	0	<1	0	
Magnesium	ppm	ASTM D5185(m)	950	881	696	
Calcium	ppm	ASTM D5185(m)	1050	1191	1319	
Phosphorus	ppm	ASTM D5185(m)	995	1037	1020	
Zinc	ppm	ASTM D5185(m)	1180	1217	1127	
Sulfur	ppm	ASTM D5185(m)	2600	2592	2882	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINAN'	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	4	
Sodium	ppm	ASTM D5185(m)		4	4	
Potassium	ppm	ASTM D5185(m)	>20	6	3	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.4	0	
Nitration	Abs/cm	ASTM D7624*	>20	8.0	5.9	
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.5	18.3	



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CALA ISO 17025:2017 Accredited Laboratory

Report Id: GFL350 [WCAMIS] 02648376 (Generated: 07/18/2024 08:33:34) Rev: 1

Laboratory

Sample No. Unique Number : 5813928 Test Package : MOB 1

Lab Number : 02648376

: GFL0116403

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.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 17 Jul 2024 **Tested** : 17 Jul 2024

Diagnosed

: 18 Jul 2024 - Kevin Marson

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

GFL Environmental - 350 - Emeral Park Regina

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

Contact/Location: Vaughn Hortness - GFL350