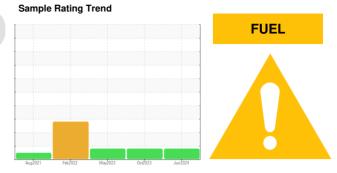


# **OIL ANALYSIS REPORT**

Machine Id
9115
Component
Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- GAL)



## DIAGNOSIS

### Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

#### 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 a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

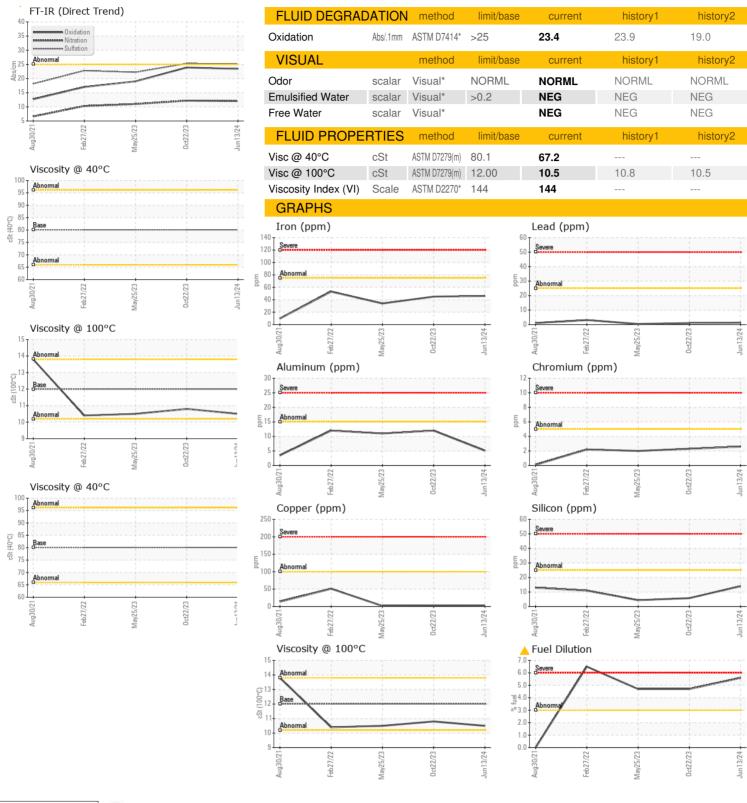
### **Fluid Condition**

The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0111788	GFL0081957	GFL0081951
Sample Date		Client Info		13 Jun 2024	22 Oct 2023	25 May 2023
Machine Age	hrs	Client Info		3926	2820	2384
Oil Age	hrs	Client Info		525	435	350
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	46	45	34
Chromium	ppm	ASTM D5185(m)	>5	3	2	2
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>15	5	12	11
Lead	ppm	ASTM D5185(m)	>25	1	1	<1
Copper	ppm	ASTM D5185(m)	>100	2	2	2
Tin	ppm	ASTM D5185(m)	>4	0	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	4	<1	1
Barium	ppm	ASTM D5185(m)	0	<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)	50	58	58	59
Manganese	ppm	ASTM D5185(m)	0	<1	<1	0
Magnesium	ppm	ASTM D5185(m)	950	923	922	933
Calcium	ppm	ASTM D5185(m)	1050	1041	1010	1003
Phosphorus	ppm	ASTM D5185(m)	995	950	962	953
Zinc	ppm	ASTM D5185(m)	1180	1143	1147	1139
Sulfur	ppm	ASTM D5185(m)	2600	2335	2298	2360
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	14	6	4
Sodium	ppm	ASTM D5185(m)		6	6	5
Potassium	ppm	ASTM D5185(m)	>20	6	21	17
Fuel	%	ASTM D7593*	>3.0	<b>△</b> 5.6	<b>△</b> 4.7	<b>▲</b> 4.7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	1.3	1.3	1
Nitration	Abs/cm	ASTM D7624*	>20	12.0	12.2	11.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.2	25.3	22.2



# **OIL ANALYSIS REPORT**





CALA
ISO 17025:2017
Accredited
Laboratory

**Laboratory**: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **Sample No.**: GFL0111788 **Received**: 18 Jun 2024

 Lab Number
 : 02642489
 Tested
 : 19 Jun 2024

 Unique Number
 : 5800028
 Diagnosed
 : 19 Jun 2024 - Wes Davis

Test Package : MOB 1 ( Additional Tests: KV40, PercentFuel, VI, Visual )

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.

GFL Environmental - 557 - Edson

6615 - 4th Ave, Edson, AB CA T7E 1M5 Contact: GFL Tech wcgfldemo@gmail.com T:

F: