

## **OIL ANALYSIS REPORT**

## Sample Rating Trend





Machine Id
829008
Component
Diesel Engine
Fluid

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

# DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the oil

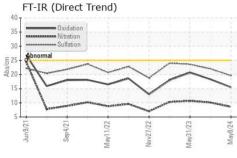
## **Fluid Condition**

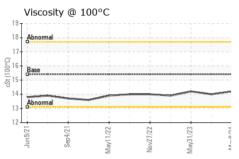
The condition of the oil is acceptable for the time in service.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0080090	GFL0095038	GFL0080157
Sample Date		Client Info		08 May 2024	19 Nov 2023	31 May 2023
Machine Age	hrs	Client Info		11461	10337	9199
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
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)	>120	6	10	13
Chromium	ppm	ASTM D5185(m)	>20	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	2	2
Lead	ppm	ASTM D5185(m)	>40	0	<1	2
Copper	ppm	ASTM D5185(m)	>330	<1	<1	1
Tin	ppm	ASTM D5185(m)	>15	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)	0	3	4	6
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	60	61	65
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	978	981	995
Calcium	ppm	ASTM D5185(m)	1070	1048	1070	1165
Phosphorus	ppm	ASTM D5185(m)	1150	983	987	1081
Zinc	ppm	ASTM D5185(m)	1270	1197	1198	1223
Sulfur	ppm	ASTM D5185(m)	2060	2501	2526	2385
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	2	3	4
Sodium	ppm	ASTM D5185(m)		3	4	5
Potassium	ppm	ASTM D5185(m)	>20	<1	1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.2	0.4	0.4
Nitration	Abs/cm		>20	8.6	10.1	10.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.6	22.0	23.6

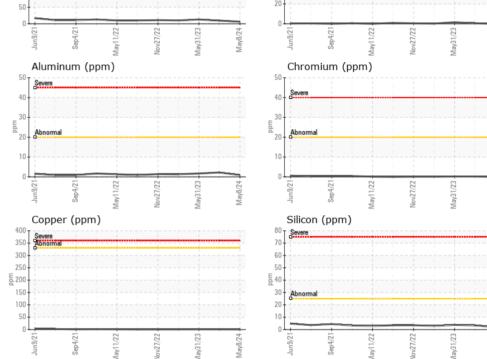


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FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.5	18.3	20.7
VISUAL		method	limit/base	current	history1	history2
Emulsified Water Free Water	scalar scalar	Visual* Visual*	>0.2	NEG NEG	NEG NEG	NEG NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.2	14.0	14.2
GRAPHS						
ari/ trio						
Iron (ppm)			10	Lead (ppm)		





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number : 02636839

Test Package : MOB 1

cSt (100°C)

12

: GFL0080090

Unique Number : 5786001

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 577 - First Class Received : 22 May 2024 **Tested** 

Diagnosed

: 22 May 2024 : 22 May 2024 - Wes Davis

Soot %

6.0 5.0

\$3.0 2.0 1.0

0.0

8540 Chilliwack Mountain Rd, Chilliwack, BC

**CA V2R 3W8** Contact: Derek Jessop djessop@gflenv.com T: (604)798-5301

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.

Viscosity @ 100°C