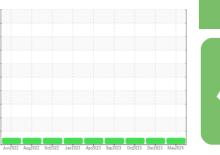


# **OIL ANALYSIS REPORT**

## Sample Rating Trend







Machine Id
912009
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (9 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

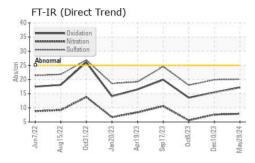
## **Fluid Condition**

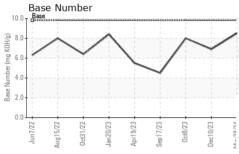
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

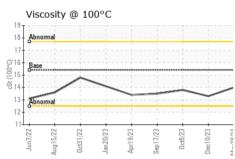
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number	,	Client Info		GFL0124774	GFL0097743	GFL0087274
Sample Date		Client Info		28 May 2024	10 Dec 2023	08 Oct 2023
	hrs	Client Info		8236	6773	6255
	hrs	Client Info		563	518	130
Oil Changed	1110	Client Info		Changed	Changed	Changed
Sample Status		Oliciti iiilo		NORMAL	NORMAL	NORMAL
CONTAMINATION CO	201	mathad	limit/base			
	אוע	method		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 METALS		method	limit/base	current	history1	history2
	ppm	ASTM D5185m	>120	9	7	7
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	1
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	3	2	4
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	2	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	52	59
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	919	863	883
Calcium	ppm	ASTM D5185m	1070	1009	993	1070
Phosphorus	ppm	ASTM D5185m	1150	1082	892	992
Zinc	ppm	ASTM D5185m	1270	1234	1191	1196
Sulfur	ppm	ASTM D5185m	2060	3647	2541	3202
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	3
Sodium	ppm	ASTM D5185m		5	2	4
Potassium	ppm	ASTM D5185m	>20	2	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.6	0.3
	Abs/cm	*ASTM D7624	>20	7.9	7.6	5.6
	Abs/.1mm	*ASTM D7415	>30	20.1	19.9	18.0
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	15.5	13.6
	mg KOH/g	ASTM D2896	9.8	8.5	6.9	8.0
			0.0	U.U	0.0	



## **OIL ANALYSIS REPORT**



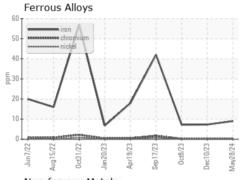


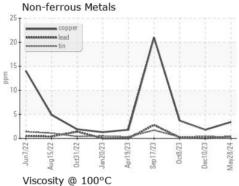


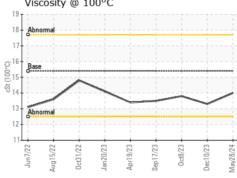
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

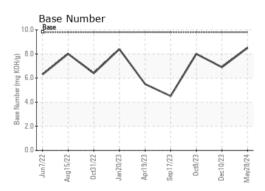
FLUID PROP	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.3	13.8

## **GRAPHS**













Laboratory Sample No.

: GFL0124774 Lab Number : 06201206 Unique Number : 11063329

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Jun 2024

**Tested** : 07 Jun 2024 Diagnosed : 07 Jun 2024 - Wes Davis

GFL Environmental - 405 - Arbor Hills 7811 Chubb Rd

NORTHVILLE, MI US 48168 Contact: John Nahal

jnahal@gflenv.com T:

Test Package : FLEET Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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