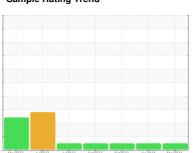


# **OIL ANALYSIS REPORT**

# Sample Rating Trend







# Machine Id 4645 M Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (5 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

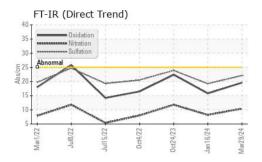
# **Fluid Condition**

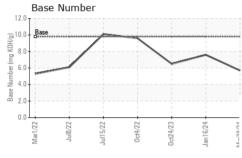
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

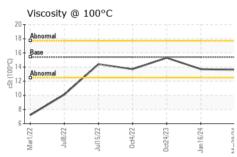
		Warzuzz	JUIZUZZ JUIZUZZ	UCIZUZZ UCIZUZ3 Janzuz4	Mar2024	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0115081	GFL0106659	GFL0097699
Sample Date		Client Info		29 Mar 2024	16 Jan 2024	24 Oct 2023
Machine Age	hrs	Client Info		17882	17296	16881
J	hrs	Client Info		586	395	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	ON	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 METALS		method	limit/base	current	history1	history2
	ppm	ASTM D5185m	>90	30	11	37
	ppm	ASTM D5185m	>20	<1	<1	1
		ASTM D5105m	>2	<1	0	0
	ppm		>2	<1		
	ppm	ASTM D5185m			0	<1
	ppm	ASTM D5185m	>2	0	0	0
	ppm	ASTM D5185m	>20	3	1	2
	ppm	ASTM D5185m	>40	0	0	0
	ppm	ASTM D5185m	>330	2	<1	2
	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	<1	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	52	55
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	845	886	874
Calcium	ppm	ASTM D5185m	1070	1016	961	1011
Phosphorus	ppm	ASTM D5185m	1150	926	997	943
Zinc	ppm	ASTM D5185m	1270	1143	1209	1253
Sulfur	ppm	ASTM D5185m	2060	2620	2945	2468
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	13	8	7
Sodium	ppm	ASTM D5185m		8	4	10
Potassium	ppm	ASTM D5185m	>20	3	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.5	0.3	0.6
	Abs/cm	*ASTM D7624	>20	10.4	8.2	11.8
	Abs/.1mm	*ASTM D7415	>30	22.1	19.2	23.9
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.6	15.8	22.4
	mg KOH/g	ASTM D2896	. =-	5.7	7.6	6.5
2030 (10mbol (DIV)	9 1.01119		0.0	0.1	7.0	0.0



# **OIL ANALYSIS REPORT**



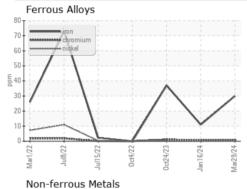


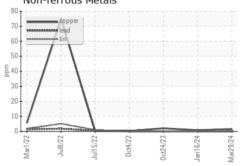


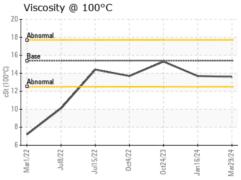
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

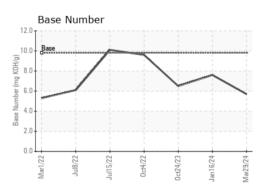
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.7	15.3

# **GRAPHS**













Certificate L2367

Laboratory

Sample No. Lab Number : 06138309 Unique Number: 10963117

: GFL0115081 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 04 Apr 2024 **Tested** 

: 04 Apr 2024 Diagnosed : 04 Apr 2024 - Wes Davis

GFL Environmental - 405 - Arbor Hills 7811 Chubb Rd

NORTHVILLE, MI US 48168

Contact: Anthony Hopkins ahopkins@gflenv.com

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)

T:

F: