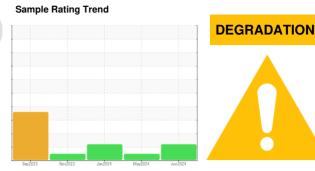


# **OIL ANALYSIS REPORT**



GFL035 934047 Diesel Engine

PETRO CANADA DURON SHP 15W40 (42 QTS)



## **DIAGNOSIS**

### Recommendation

The oil is near the end of it's useful service life. recommend schedule an oil change. Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

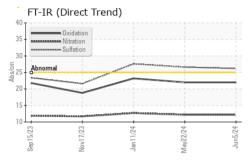
## Fluid Condition

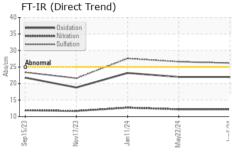
The BN level is low. The condition of the oil is acceptable for the time in service.

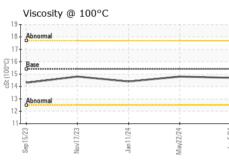
1 307 130040 (4	2 Q 1 3)	osp2023	NOVZUZ3	Janzoza Mayzoza	Juli2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116496	GFL0116486	GFL0085229
Sample Date		Client Info		05 Jun 2024	22 May 2024	11 Jan 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
-uel		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
ron	ppm	ASTM D5185m	>120	41	32	35
Chromium	ppm	ASTM D5185m	>20	2	2	2
Nickel	ppm	ASTM D5185m	>5	2	1	1
Γitanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	13	10	12
_ead	ppm	ASTM D5185m	>40	12	9	6
Copper	ppm	ASTM D5185m	>330	5	3	5
Γin	ppm	ASTM D5185m	>15	2	1	2
√anadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	4	4
Barium	ppm	ASTM D5185m	0	2	0	0
Molybdenum	ppm	ASTM D5185m	60	71	58	60
Manganese	ppm	ASTM D5185m	0	2	2	3
Magnesium	ppm	ASTM D5185m	1010	694	618	651
Calcium	ppm	ASTM D5185m	1070	1981	1810	1656
Phosphorus	ppm	ASTM D5185m	1150	847	823	812
Zinc	ppm	ASTM D5185m	1270	1163	1024	1016
Sulfur	ppm	ASTM D5185m	2060	2992	2859	2374
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	8	11
Sodium	ppm	ASTM D5185m		9	9	10
Potassium	ppm	ASTM D5185m	>20	17	12	21
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.1	0	0
Nitration	Abs/cm	*ASTM D7624	>20	12.2	12.2	12.7
vitiation						
	Abs/.1mm	*ASTM D7415	>30	26.2	26.6	27.6
			>30 limit/base	26.2 current	26.6 history1	27.6 history2
Sulfation						

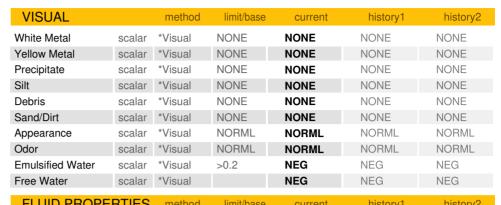


# **OIL ANALYSIS REPORT**



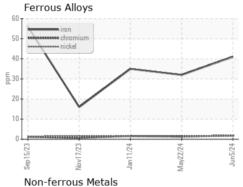


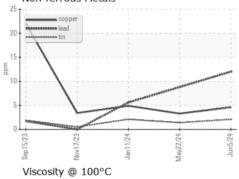


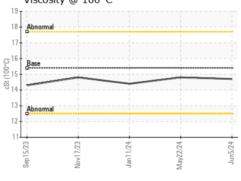


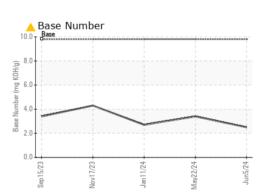
FLUID FROF	LHILS	method	IIIIII/Dase	Current	HISTORY	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	14.7	14.8	14.4

## **GRAPHS**













Certificate 12367

Laboratory Sample No.

: GFL0116496 Lab Number : 06201299

Test Package : FLEET

Unique Number : 11063422

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

: 07 Jun 2024 Diagnosed : 09 Jun 2024 - Don Baldridge

GFL Environmental - 035 - Greensboro 1236 Elon Place High Point, NC US 27263

Contact: JORGE COSTA jorge.costa@gflenv.com T: (336)668-3712

\* - 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)