

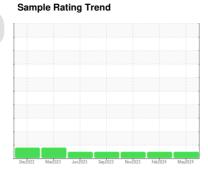
# **OIL ANALYSIS REPORT**



Area (**BC71231**) 511022 Component

Diesel Engine

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





## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

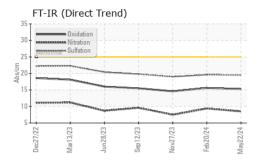
## **Fluid Condition**

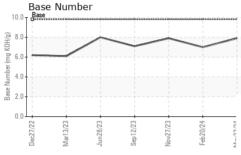
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

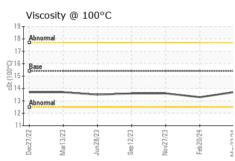
SAMPLE INFORM	ATI <u>ON</u>	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116070	GFL0029662	GFL0092957
Sample Date		Client Info		22 May 2024	20 Feb 2024	27 Nov 2023
	hrs	Client Info		3465	3079	2851
	hrs	Client Info		1891	1891	1891
Oil Changed	1110	Client Info		N/A	N/A	N/A
Sample Status		Olichi iilio		NORMAL	NORMAL	NORMAL
CONTAMINATION	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method	70.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
	ppm	ASTM D5185m	>120	11	14	8
Chromium	ppm	ASTM D5185m	>20	1	<1	0
Nickel	ppm	ASTM D5185m	>15	2	3	2
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>3	1	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	2
Lead	ppm	ASTM D5185m	>40	1	1	0
Copper	ppm	ASTM D5185m	>330	6	14	10
Tin	ppm	ASTM D5185m	>15	2	2	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	2	1
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	63	66	61
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	1010	966	989
Calcium	ppm	ASTM D5185m	1070	1121	1038	1132
	ppm	ASTM D5185m	1150	1005	1028	1045
	ppm	ASTM D5185m	1270	1255	1233	1271
	ppm	ASTM D5185m	2060	3090	2905	2979
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	6	4
	ppm	ASTM D5185m		4	1	1
Potassium	ppm	ASTM D5185m	>20	5	7	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.4	0.5	0.4
	Abs/cm	*ASTM D7624	>20	8.5	9.4	7.5
	Abs/.1mm	*ASTM D7415	>30	19.5	19.6	19.0
FLUID DEGRADA	<u> NO</u> ITA	method				history2
Oxidation	ATION Abs/.1mm mg KOH/g	method *ASTM D7414 ASTM D2896	limit/base >25 9.8	current 15.3 7.9	history1 15.6 7	history2 14.6 7.9

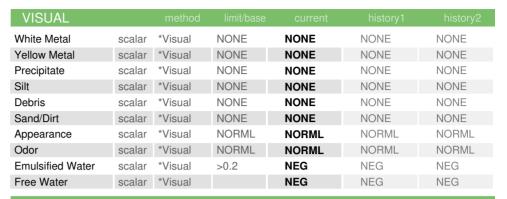


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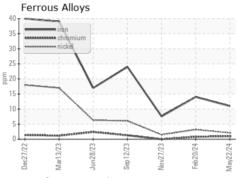




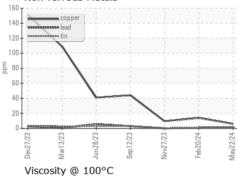


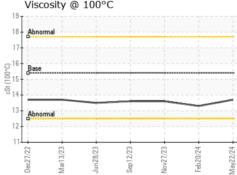
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.3	13.6

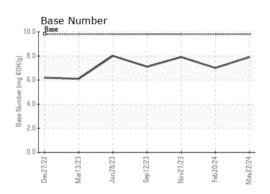
### **GRAPHS**















Laboratory Sample No.

: GFL0116070 Lab Number : 06191892 Unique Number : 11048644

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 May 2024

**Tested** Diagnosed

: 29 May 2024 : 30 May 2024 - Sean Felton

Cheboygan, MI US 49721 Contact: Chris Gee cgee@gflenv.com T: (231)597-8553

501 N. Western Ave

GFL Environmental - 463 - Cheboygan

Certificate 12367

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

 $^st$  - 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)