

# **OIL ANALYSIS REPORT**

(TB6606) 412070

Diesel Engine

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

# Sample Rating Trend



# 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

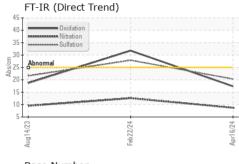
# **Fluid Condition**

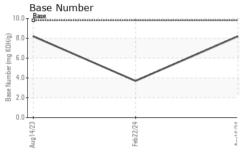
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

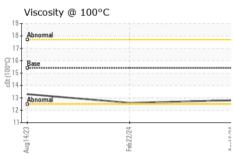
Aug/2023 Feb/2024 Apr/2024								
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0113051	GFL0113039	GFL0059618		
Sample Date		Client Info		16 Apr 2024	22 Feb 2024	14 Aug 2023		
Machine Age	hrs	Client Info		4780	4261	0		
Oil Age	hrs	Client Info		601	0	0		
Oil Changed		Client Info		Changed	N/A	N/A		
Sample Status				NORMAL	ABNORMAL	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 D5185m	>165	22	38	28		
Chromium	ppm	ASTM D5185m	>5	1	1	1		
Nickel	ppm	ASTM D5185m	>4	<1	0	0		
Titanium	ppm	ASTM D5185m	>2	<1	0	0		
Silver	ppm	ASTM D5185m	>2	0	0	0		
Aluminum	ppm	ASTM D5185m	>20	4	6	7		
Lead	ppm	ASTM D5185m	>150	1	<1	2		
Copper	ppm	ASTM D5185m	>90	1	2	2		
Tin	ppm	ASTM D5185m	>5	1	<1	<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	12	5	14		
Barium	ppm	ASTM D5185m	0	0	0	0		
Molybdenum	ppm	ASTM D5185m	60	90	58	62		
Manganese	ppm	ASTM D5185m	0	<1	<1	<1		
Magnesium	ppm	ASTM D5185m	1010	1315	828	999		
Calcium	ppm	ASTM D5185m	1070	1501	979	1183		
Phosphorus	ppm	ASTM D5185m	1150	1435	814	987		
Zinc	ppm	ASTM D5185m	1270	1685	1034	1290		
Sulfur	ppm	ASTM D5185m	2060	4308	2357	3575		
CONTAMINAN	ITS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>35	7	6	10		
Sodium	ppm	ASTM D5185m		6	7	5		
Potassium	ppm	ASTM D5185m	>20	9	18	15		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>7.5	0.3	0.6	0.5		
Nitration	Abs/cm	*ASTM D7624	>20	8.7	12.6	9.5		
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	27.9	21.6		
FLUID DEGRADATION method limit/base current history1 history2								
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	31.8	18.7		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.2	▲ 3.7	8.2		

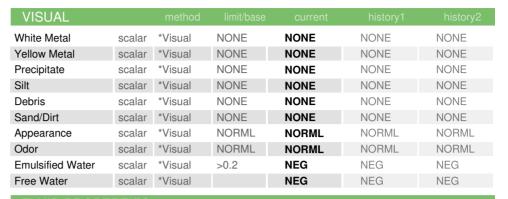


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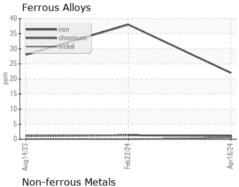


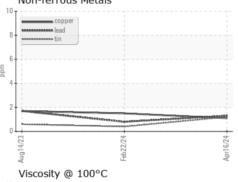


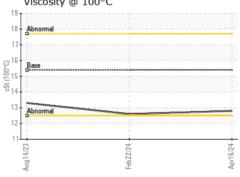


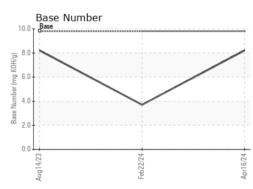
FLUID PROPI	EHILO	method			riistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	12.6	13.3

# **GRAPHS**













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0113051 Lab Number : 06155174 Unique Number : 10990597 Test Package : FLEET

Received **Tested** Diagnosed

: 19 Apr 2024 : 24 Apr 2024 : 24 Apr 2024 - Sean Felton

GFL Environmental - 924 - Madison HC 300 Raemisch Road Waunakee, WI

US 53597 Contact: Ben Briggs ben.briggs@gflenv.com T: (608)770-9196

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)