

# **OIL ANALYSIS REPORT**

Area (68J1UN) 429050-402452

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (12 GAL)

Sample Rating Trend

# **NORMAL**



# 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

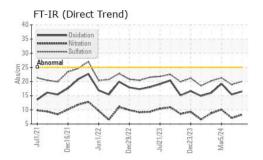
# **Fluid Condition**

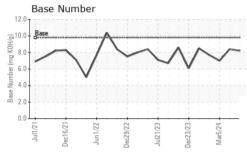
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

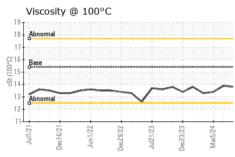
GAL)		ul2021 De	:2021 Jun2022 Dec2	022 Jul2023 Dec2023 N	Nar2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0118178	GFL0109163	GFL0109176
Sample Date		Client Info		08 Apr 2024	20 Mar 2024	05 Mar 2024
Machine Age	hrs	Client Info		15711	15565	15429
Oil Age	hrs	Client Info		300	150	700
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	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	4	3	8
Chromium	ppm	ASTM D5185m	>5	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>150	<1	<1	2
Copper	ppm	ASTM D5185m	>90	0	0	<1
Tin	ppm	ASTM D5185m	>5	<1	0	<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	2	1	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	55	63
Manganese	ppm	ASTM D5185m	0	0	0	0
Magnesium	ppm	ASTM D5185m	1010	998	940	940
Calcium	ppm	ASTM D5185m	1070	1120	1042	1067
Phosphorus	ppm	ASTM D5185m	1150	1101	1032	1038
Zinc	ppm	ASTM D5185m	1270	1349	1256	1228
Sulfur	ppm	ASTM D5185m	2060	3785	3466	2975
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	3	2	4
Sodium	ppm	ASTM D5185m		5	2	6
Potassium	ppm	ASTM D5185m	>20	2	2	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.3	0.2	0.4
Nitration	Abs/cm	*ASTM D7624	>20	8.3	7.1	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	18.9	21.3
FLUID DEGRAI	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	15.4	19.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.2	8.4	7.0

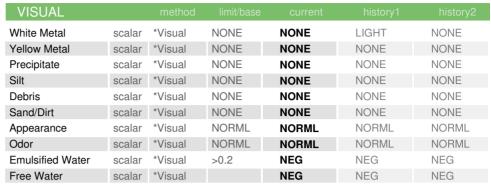


# **OIL ANALYSIS REPORT**





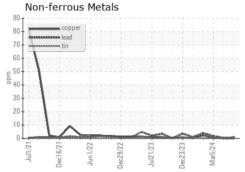


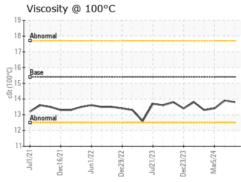


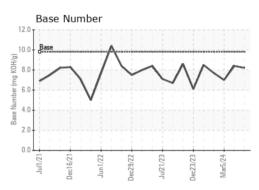
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.9	13.4

# **GRAPHS**

# Ferrous Alloys











Certificate 12367

Laboratory Sample No. Unique Number : 10976409 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0118178 Lab Number : 06146331

Received **Tested** Diagnosed

: 11 Apr 2024 : 12 Apr 2024 : 12 Apr 2024 - Wes Davis

GFL Environmental - 822 - Springfield Hauling 2120 West Bennett Street Springfield, MO US 65807

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

Contact: Dennis Moore dennis.moore@gflenv.com T: (417)403-3641

\* - 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)