

# **OIL ANALYSIS REPORT**

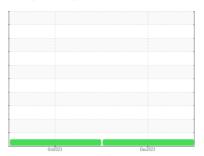
### Sample Rating Trend

# **NORMAL**



728097 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

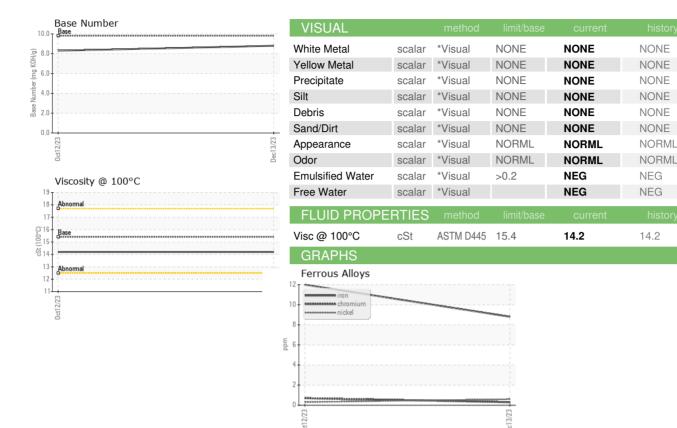
### **Fluid Condition**

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

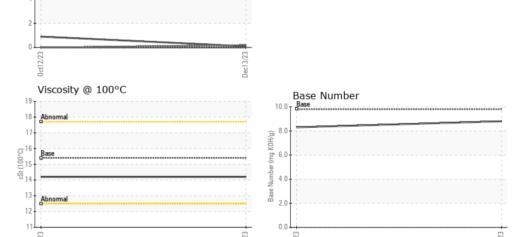
N 50P 15W4U (	- GAL)		Oct2023	Dec2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0102116	GFL0087921	
Sample Date		Client Info		13 Dec 2023	12 Oct 2023	
Machine Age	hrs	Client Info		10899	10899	
Oil Age	hrs	Client Info		600	600	
Oil Changed		Client Info		Changed	N/A	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	9	12	
Chromium	ppm	ASTM D5185m	>5	<1	<1	
Nickel	ppm	ASTM D5185m	>2	<1	<1	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>3	<1	0	
Aluminum	ppm	ASTM D5185m	>30	2	1	
Lead	ppm	ASTM D5185m	>30	0	0	
Copper	ppm	ASTM D5185m	>150	<1	<1	
Tin	ppm	ASTM D5185m	>5	<1	0	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	2	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	59	60	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	953	935	
Calcium	ppm	ASTM D5185m	1070	1045	1046	
Phosphorus	ppm	ASTM D5185m	1150	1038	979	
Zinc	ppm	ASTM D5185m	1270	1264	1165	
Sulfur	ppm	ASTM D5185m	2060	3008	2852	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	4	4	
Sodium	ppm	ASTM D5185m		3	6	
Potassium	ppm	ASTM D5185m	>20	2	0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	6.0	6.0	
	AL / d	*ACTM D741E	>30	18.4	17.9	
Sulfation	Abs/.1mm	*ASTM D7415	>50	10.4	17.0	
Sulfation FLUID DEGRAD			limit/base	current	history1	history2



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Non-ferrous Metals







Certificate L2367

Laboratory Sample No. Lab Number Unique Number

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0102116 : 06039098 : 10794327

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

Recieved Diagnosed Diagnostician

: 19 Dec 2023 : 20 Dec 2023 : Wes Davis

GFL Environmental - 960 - West Central HC JacksonvilleHC

2263 State Hwy 104 Jacksonville, IL US 62656 Contact: David Bradshaw

david.bradshaw@gflenv.com

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\* - 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)

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