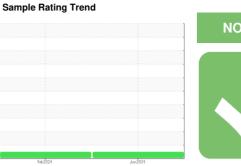


# **OIL ANALYSIS REPORT**







# (YA171058) [oil service] 713006

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

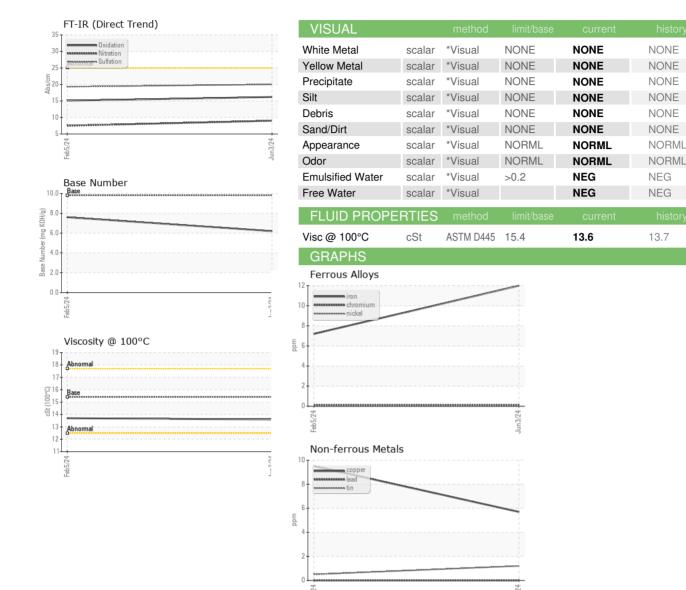
## **Fluid Condition**

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

N SHP 15W40 (-	GAL)		Feb 2024	Jun2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0124451	GFL0111068	
Sample Date		Client Info		03 Jun 2024	05 Feb 2024	
Machine Age	hrs	Client Info		2560	1856	
Dil Age	hrs	Client Info		704	1856	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
-uel		WC Method	>3.0	<1.0	<1.0	
Nater		WC Method		NEG	NEG	
Glycol		WC Method	7 0.2	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
ron		ASTM D5185m	>120	12	7	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Vickel	ppm	ASTM D5185m	>20	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver		ASTM D5185m	>2	<1	<1	
Aluminum	ppm	ASTM D5185m	>20	4	3	
_ead		ASTM D5185m	>40	0	0	
Copper	ppm	ASTM D5185m		6	10	
Борр <del>е</del> і Гіп	ppm	ASTM D5185m	>15	1	<1	
/anadium	ppm	ASTM D5185m	>10	0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES	le le	method	limit/base	current	history1	history2
Boron	nnm		0	2	4	
Barium	ppm		0	<1	0	
Molybdenum	ppm	ASTM D5185m	60	61	59	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium		ASTM D5185m	1010	943	937	
Calcium	ppm	ASTM D5185m	1070	1095	963	
	ppm	ASTM D5185m	1150	1095	1034	
Phosphorus Zinc	ppm	ASTM D5185m	1270	1240	1247	
Sulfur	ppm	ASTM D5185m	2060	3212	2863	
CONTAMINAN		method	limit/base	current	history1	history2
Silicon					4	
Sodium	ppm	ASTM D5185m ASTM D5185m	>25	5	2	
Potassium	ppm	ASTM D5185m	>20	4 13	9	
	ррш					
INFRA-RED	21	method	limit/base	current	history1	history2
2 10/		*ASTM D7844	>4	0.4	0.3	
	%		00		7.5	
Nitration	Abs/cm	*ASTM D7624	>20	9.0	7.5	
Nitration Sulfation	Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30	9.0 20.0	7.5 19.3	
Nitration	Abs/.1mm	*ASTM D7624 *ASTM D7415				
Soot % Nitration Sulfation FLUID DEGRA Oxidation	Abs/.1mm	*ASTM D7624 *ASTM D7415	>30	20.0	19.3	



# **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No. Unique Number : 11061927 Test Package : FLEET

: GFL0124451 Lab Number : 06199804

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

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Viscosity @ 100°C

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Jun 2024

**Tested** : 05 Jun 2024 Diagnosed : 05 Jun 2024 - Wes Davis

GFL Environmental - 006 - Wilmington

Base Number

(mg K0H/g)

Base

0.0

3618 US Highway 421 N Wilmington, NC US 28401

Contact: Eric Wood eric.wood@gflenv.com T: (717)723-1956

 $^st$  - 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)

F: (910)762-6880