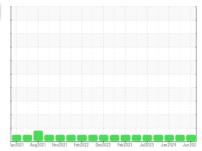


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id **920098-46** 

Diesel Engine

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

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

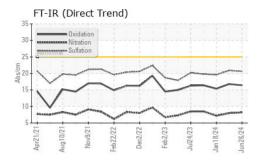
### **Fluid Condition**

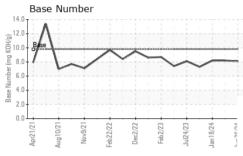
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

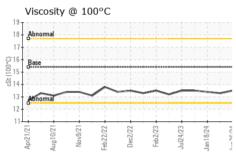
LIK)		Aprž021 Augž	021 Nov2021 Feb2022	Dec2022 Feb2023 Jul2023 Jan2	2024 Jun 202				
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0121129	GFL0103123	GFL0103138			
Sample Date		Client Info		26 Jun 2024	03 Apr 2024	18 Jan 2024			
Machine Age	hrs	Client Info		8998	8420	7885			
Oil Age	hrs	Client Info		578	535	548			
Oil Changed		Client Info		Changed	Changed	Changed			
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	6	5	6			
Chromium	ppm	ASTM D5185m	>5	<1	0	<1			
Nickel	ppm	ASTM D5185m	>4	0	0	0			
Titanium	ppm	ASTM D5185m	>2	<1	<1	0			
Silver	ppm	ASTM D5185m	>2	0	0	0			
Aluminum	ppm	ASTM D5185m	>20	1	2	1			
Lead	ppm	ASTM D5185m	>150	1	0	<1			
Copper	ppm	ASTM D5185m	>90	<1	<1	<1			
Tin	ppm	ASTM D5185m	>5	0	0	<1			
Vanadium	ppm	ASTM D5185m		<1	<1	<1			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	12	85	25			
Barium	ppm	ASTM D5185m		0	0	0			
Molybdenum	ppm	ASTM D5185m	60	64	72	66			
Manganese	ppm	ASTM D5185m		<1	0	<1			
Magnesium	ppm	ASTM D5185m	1010	1039	932	1103			
Calcium	ppm	ASTM D5185m		1224	1315	1168			
Phosphorus	ppm	ASTM D5185m	1150	1096	1006	1138			
Zinc	ppm	ASTM D5185m	1270	1418	1378	1434			
Sulfur	ppm	ASTM D5185m	2060	3561	3858	3425			
CONTAMINAN	ITS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>35	5	5	5			
Sodium	ppm	ASTM D5185m		4	4	4			
Potassium	ppm	ASTM D5185m	>20	2	1	4			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>7.5	0.3	0.3	0.2			
Nitration	Abs/cm	*ASTM D7624		8.2	8.0	7.2			
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	20.9	19.6			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	16.8	15.4			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.1	8.2	8.2			

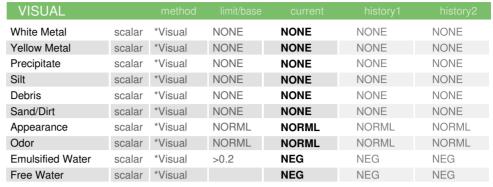


## **OIL ANALYSIS REPORT**



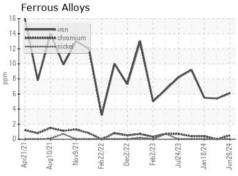


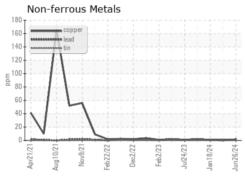


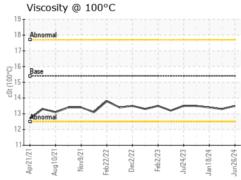


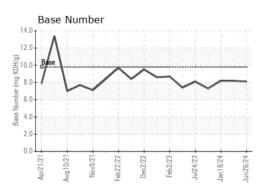
FLUID PROP	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.3	13.4

#### **GRAPHS**













Certificate 12367

Laboratory Sample No. Lab Number : 06223347

: GFL0121129

Unique Number : 11101544 Test Package : FLEET

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

**Tested** : 01 Jul 2024 Diagnosed : 01 Jul 2024 - Wes Davis

GFL Environmental - 683 - Ruckersville Hauling

261 INDUSTRIAL DR Ruckersville, VA US 22698

Contact: Jaf Finney jfinney@gflenv.com T: (434)990-4972

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)