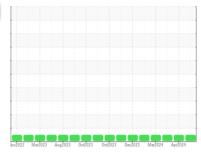


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id
420110
Component
Diesel Engine

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

## 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

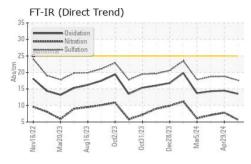
## **Fluid Condition**

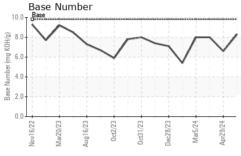
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

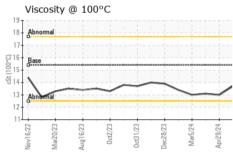
GAL)		lov2022 Mar	2023 Aug2023 Oct2023	Oct2023 Dec2023 Mar2024	Apr2024				
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0121240	GFL0118633	GFL0118612			
Sample Date		Client Info		17 Jun 2024	29 Apr 2024	28 Mar 2024			
Machine Age	hrs	Client Info		0	0	0			
Oil Age	hrs	Client Info		0	600	0			
Oil Changed		Client Info		Not Changd	Changed	Not Changd			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINAT	ION	method	limit/base	current	history1	history2			
Fuel		WC Method	>5	<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	>110	4	8	9			
Chromium	ppm	ASTM D5185m	>4	0	<1	1			
Nickel	ppm	ASTM D5185m	>2	<1	0	<1			
Titanium	ppm	ASTM D5185m		0	0	<1			
Silver	ppm	ASTM D5185m	>2	0	0	0			
Aluminum	ppm	ASTM D5185m	>25	2	2	2			
Lead	ppm	ASTM D5185m	>45	<1	0	1			
Copper	ppm	ASTM D5185m	>85	0	0	<1			
Tin	ppm	ASTM D5185m	>4	<1	<1	1			
Vanadium	ppm	ASTM D5185m		0	0	<1			
Cadmium	ppm	ASTM D5185m		0	0	<1			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	4	6	6			
Barium	ppm	ASTM D5185m	0	0	0	0			
Molybdenum	ppm	ASTM D5185m	60	55	55	59			
Manganese	ppm	ASTM D5185m	0	<1	<1	<1			
Magnesium	ppm	ASTM D5185m	1010	934	816	851			
Calcium	ppm	ASTM D5185m	1070	1123	1198	1304			
Phosphorus	ppm	ASTM D5185m	1150	1065	981	1034			
Zinc	ppm	ASTM D5185m	1270	1281	1171	1233			
Sulfur	ppm	ASTM D5185m	2060	3696	3266	3340			
CONTAMINANTS method limit/base current history1 history									
Silicon	ppm	ASTM D5185m	>30	3	3	5			
Sodium	ppm	ASTM D5185m		4	3	2			
Potassium	ppm	ASTM D5185m	>20	4	0	2			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	0.2	0.4	0.3			
Nitration	Abs/cm	*ASTM D7624	>20	5.7	7.8	7.1			
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	18.8	18.7			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	14.5	14.3			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	6.6	8.0			
. ,	0								

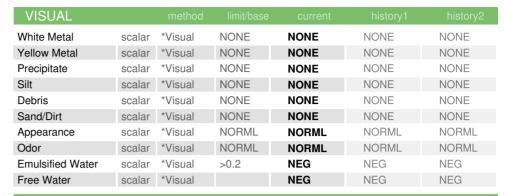


## **OIL ANALYSIS REPORT**









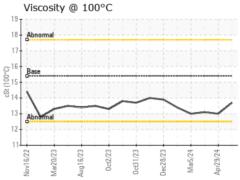
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.0	13.1	

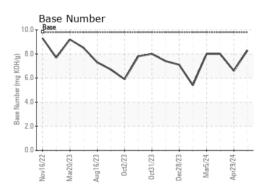
### **GRAPHS**





mdd Viscosity @ 100°C









Laboratory Sample No.

Lab Number : 06215423 Unique Number : 11088287

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0121240

Received : 20 Jun 2024 **Tested** : 21 Jun 2024 Diagnosed : 21 Jun 2024 - Wes Davis

3426 State Route 45 Mayfield, KY

GFL Environmental - 846 - Mayfield Hauling

US 42066 Contact: Jack Lindsey jack.lindsey@gflenv.com T: (270)970-3690

Test Package : FLEET Certificate 12367 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)