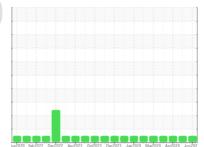


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id 921062-260379

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

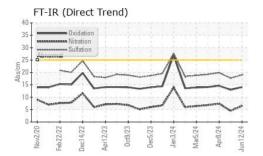
## **Fluid Condition**

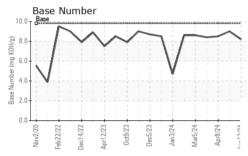
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

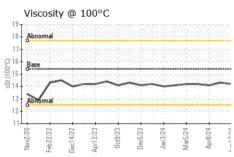
GAL)  6x2020 Feb2022 Ome2022 Apr2023 Ome2023 June2024 Mar2024 Apr2024 Apr2024 June2024 June2024 Apr2024 Apr20							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0122929	GFL0118768	GFL0114137	
Sample Date		Client Info		12 Jun 2024	07 May 2024	08 Apr 2024	
Machine Age	hrs	Client Info		8748	8548	8362	
Oil Age	hrs	Client Info		8748	7937	7852	
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATI	ON	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 METALS	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	6	0	12	
Chromium	ppm	ASTM D5185m	>20	<1	0	<1	
Nickel	ppm	ASTM D5185m	>4	<1	0	0	
Titanium	ppm	ASTM D5185m		<1	0	0	
Silver	ppm	ASTM D5185m	>3	<1	0	0	
Aluminum	ppm	ASTM D5185m		2	<1	1	
Lead	ppm	ASTM D5185m	>40	<1	0	<1	
Copper	ppm	ASTM D5185m		2	0	0	
Tin	ppm	ASTM D5185m	>15	<1	0	<1	
Vanadium	ppm	ASTM D5185m		<1	0	<1	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	4	4	0	
Barium	ppm	ASTM D5185m		<1	0	0	
Molybdenum	ppm	ASTM D5185m	60	55	53	57	
Manganese	ppm	ASTM D5185m		<1	0	0	
Magnesium	ppm	ASTM D5185m	1010	877	877	904	
Calcium	ppm	ASTM D5185m	1070	1100	1019	1054	
Phosphorus	ppm	ASTM D5185m	1150	1044	1035	989	
Zinc	ppm	ASTM D5185m	1270	1187	1188	1174	
Sulfur	ppm	ASTM D5185m	2060	3223	3572	3373	
CONTAMINAN		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	2	2	
Sodium	ppm	ASTM D5185m	00	11	4	24	
Potassium	ppm	ASTM D5185m	>20	4	2	21	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.3	0.1	0.8	
Nitration	Abs/cm	*ASTM D7624	>20	6.5	4.5	7.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	17.7	19.9	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	13.0	14.6	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.2	9.0	8.5	



# **OIL ANALYSIS REPORT**



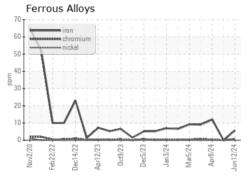




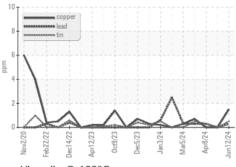
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

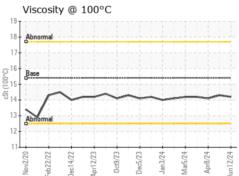
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.3	14.1

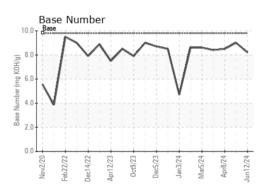
## **GRAPHS**















Certificate 12367

Laboratory Sample No.

: GFL0122929 Lab Number : 06212969

Unique Number : 11085833 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jun 2024

**Tested** : 19 Jun 2024 Diagnosed : 19 Jun 2024 - Wes Davis

GFL Environmental - 837 - Harrison TS

22820 S State Route 291 Harrisonville, MO

US 64701

Contact: SARA PATRICK spatrick@gflenv.com

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

T:

F: