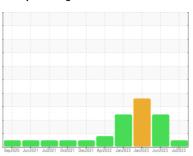


# **OIL ANALYSIS REPORT**

## Sample Rating Trend



NORMAL



Machine Id 10950 Component

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (8 GAL)

# DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

Test for glycol is negative. There is no indication of any contamination in the oil.

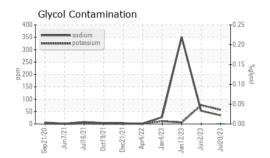
## **Fluid Condition**

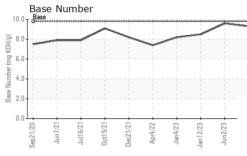
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

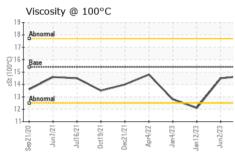
Seption Junitor   Junitor   Junitor   October   October   April 022 Junitor   Junitor								
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0080547	GFL0080509	GFL0066821		
Sample Date		Client Info		20 Jul 2023	02 Jun 2023	12 Jan 2023		
Machine Age	hrs	Client Info		91009	91009	91009		
Oil Age	hrs	Client Info		91009	91009	0		
Oil Changed		Client Info		Changed	Changed	Changed		
Sample Status				NORMAL	ABNORMAL	ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2		
Fuel		WC Method	>3.0	<1.0	1.2	<b>▲</b> 7.6		
WEAR METAL	S	method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>90	19	12	42		
Chromium	ppm	ASTM D5185m	>20	<1	<1	1		
Nickel	ppm	ASTM D5185m	>2	0	<1	<1		
Titanium	ppm	ASTM D5185m	>2	0	0	<1		
Silver	ppm	ASTM D5185m	>2	0	0	0		
Aluminum	ppm	ASTM D5185m	>20	2	0	5		
Lead	ppm	ASTM D5185m	>40	0	0	<1		
Copper	ppm	ASTM D5185m	>330	0	<1	4		
Tin	ppm	ASTM D5185m	>15	0	0	<1		
Vanadium	ppm	ASTM D5185m		0	0	0		
Cadmium	ppm	ASTM D5185m		0	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	0	13	0	25		
Barium	ppm	ASTM D5185m	0	0	0	0		
Molybdenum	ppm	ASTM D5185m	60	60	60	58		
Manganese	ppm	ASTM D5185m	0	<1	<1	<1		
Magnesium	ppm	ASTM D5185m	1010	914	869	585		
Calcium	ppm	ASTM D5185m	1070	1295	1036	1399		
Phosphorus	ppm	ASTM D5185m	1150	1027	979	754		
Zinc	ppm	ASTM D5185m	1270	1249	1154	924		
Sulfur	ppm	ASTM D5185m	2060	3671	2921	2748		
CONTAMINAN	TS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	6	4	11		
Sodium	ppm	ASTM D5185m		35	<u></u> 53	<b>△</b> 351		
Potassium	ppm	ASTM D5185m	>20	57	<b>△</b> 76	<u>^</u> 6		
Glycol	%	*ASTM D2982		0.0	NEG	NEG		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>6	0.5	0.3	0.4		
Nitration	Abs/cm	*ASTM D7624	>20	7.2	6.8	11.0		
Sulfation		*ASTM D7415	>30	19.4	19.6	20.7		
	Abs/.1mm	AOTIVI D7413	, 00	13.7				
FLUID DEGRA			limit/base	current	history1	history2		
	OATION	method	limit/base	current	history1	history2		
FLUID DEGRAD Oxidation Base Number (BN)								

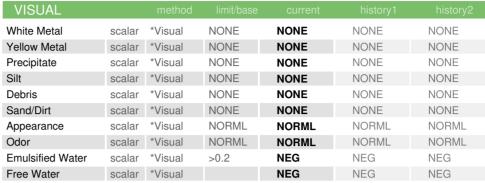


# **OIL ANALYSIS REPORT**



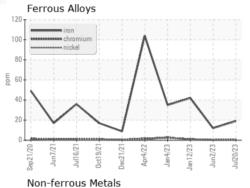


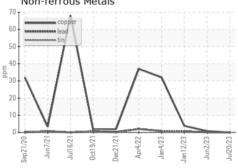


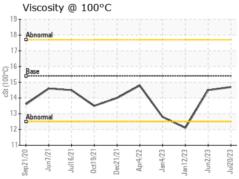


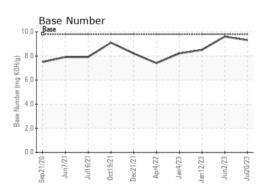
FLUID PROPI	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.7	14.5	<u> 12.1</u>

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0080547 : 05904234

Received Diagnosed : 10565590 Diagnostician

: 21 Jul 2023 : 25 Jul 2023 : Wes Davis

Test Package : FLEET ( Additional Tests: Glycol ) 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)

GFL Environmental - 018 - Fayetteville

4621 Marracco Drive Hope Mills, NC US 28348

Contact: Robert Carter robert.carter@gflenv.com T: (910)596-1170

F: