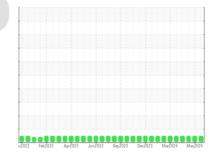


# **OIL ANALYSIS REPORT**

## Sample Rating Trend









Machine Id 412032-22 **Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (600 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

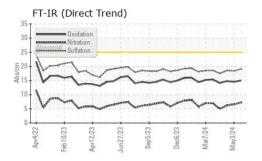
## **Fluid Condition**

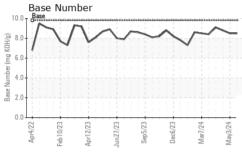
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

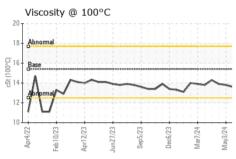
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
	WIATION	Client Info	mmbasc		GFL0118731		
Sample Number				GFL0118670		GFL0118722	
Sample Date	lawa	Client Info		24 May 2024	03 May 2024	18 Apr 2024	
Machine Age	hrs	Client Info		7148	6695 600	6695 150	
Oil Age	hrs			400			
Oil Changed		Client Info		Not Changd NORMAL	Not Changd NORMAL	Not Changd NORMAL	
Sample Status				NORMAL			
CONTAMINAT	ION	method	limit/base	current	history1	history2	
<sup>=</sup> uel		WC Method	>3.0	<1.0	<1.0	<1.0	
Nater		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2	
ron	ppm	ASTM D5185m	>120	8	5	4	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>5	<1	<1	0	
Titanium	ppm	ASTM D5185m	>2	<1	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	3	2	2	
_ead	ppm	ASTM D5185m	>40	<1	<1	0	
Copper	ppm	ASTM D5185m	>330	2	2	2	
Γin	ppm	ASTM D5185m	>15	<1	<1	0	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	<1	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	0	0	
Barium	ppm	ASTM D5185m	0	<1	2	0	
Molybdenum	ppm	ASTM D5185m	60	59	58	58	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	1018	941	986	
Calcium	ppm	ASTM D5185m	1070	1118	1083	1051	
Phosphorus	ppm	ASTM D5185m	1150	1099	1100	1041	
Zinc	ppm	ASTM D5185m	1270	1280	1221	1251	
Sulfur	ppm	ASTM D5185m	2060	3257	3322	3476	
CONTAMINANTS method limit/base current history1 history2							
Silicon	ppm	ASTM D5185m	>25	5	4	3	
Sodium	ppm	ASTM D5185m		4	1	2	
Potassium	ppm	ASTM D5185m	>20	7	7	6	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.2	0.2	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	7.2	6.6	6.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	18.4	18.5	
FLUID DEGRADATION method limit/base current history1 history2							
FLUID DEGRAI	<u>//OI</u> TAC	method			history1	history2	
FLUID DEGRAI	Abs/.1mm	*ASTM D7414	limit/base	current 15.0	14.5	history2 14.8	



## **OIL ANALYSIS REPORT**



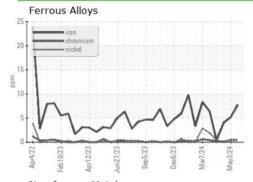


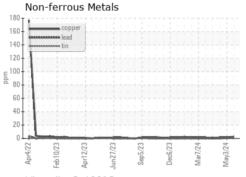


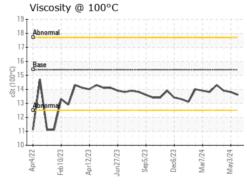
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

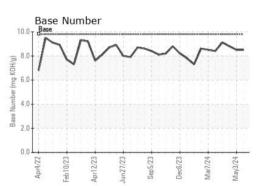
FLUID PROPI	EKITES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.8	13.9

## **GRAPHS**













Certificate 12367

Sample No. Unique Number : 11058401

Test Package : FLEET

: GFL0118670 Lab Number : 06196278

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

Received : 31 May 2024 **Tested** : 03 Jun 2024 Diagnosed

: 03 Jun 2024 - Wes Davis

GFL Environmental - 166 - Phenix City 18 Old Brickyard Rd Phenix City, AL US 36869

> Contact: DEAN PEACE JR dean.peace@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)

Report Id: GFL166 [WUSCAR] 06196278 (Generated: 06/03/2024 07:37:46) Rev: 1

Submitted By: DEAN PEACE JR

T:

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