

# **OIL ANALYSIS REPORT**

### Sample Rating Trend







Machine Id
927110
Component
Diesel Engine
Fluid

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

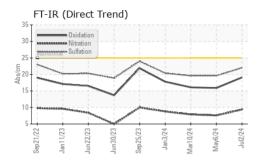
## **Fluid Condition**

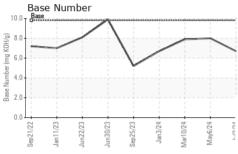
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

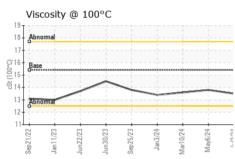
SAMPLE INFORM	ΛΑΤΙΩΝ	method	limit/base	current	history1	history2	
Sample Number	VIATION	Client Info	mmoasc	GFL0120596	GFL0120570	GFL0108484	
Sample Date		Client Info		02 Jul 2024	06 May 2024	10 Mar 2024	
Machine Age	hrs	Client Info		02 301 2024	00 Iviay 2024 0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed	1113	Client Info		N/A	N/A	N/A	
Sample Status		Client inio		NORMAL	NORMAL	NORMAL	
		and the set	Parel Maria				
CONTAMINATI	ION	method	limit/base	current	history1	history2	
Fuel		WC Method		<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	>120	9	5	4	
Chromium	ppm	ASTM D5185m	>20	<1	0	0	
Nickel	ppm	ASTM D5185m	>5	<1	0	0	
Titanium	ppm	ASTM D5185m	>2	<1	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	<1	<1	
Lead	ppm	ASTM D5185m	>40	2	0	0	
Copper	ppm	ASTM D5185m	>330	1	<1	0	
Tin	ppm	ASTM D5185m	>15	<1	0	0	
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	3	0	5	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	59	59	55	
Manganese	ppm	ASTM D5185m	0	<1	0	0	
Magnesium	ppm	ASTM D5185m	1010	931	1013	971	
Calcium	ppm	ASTM D5185m	1070	1105	1136	1104	
Phosphorus	ppm	ASTM D5185m	1150	946	1038	976	
Zinc	ppm	ASTM D5185m	1270	1213	1235	1207	
Sulfur	ppm	ASTM D5185m	2060	2702	3457	3349	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	3	2	
Sodium	ppm	ASTM D5185m		6	4	2	
Potassium	ppm	ASTM D5185m	>20	2	0	0	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.4	0.3	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	9.4	7.6	7.9	
Sulfation	Abs/.1mm	*ASTM D7415		22.0	19.6	19.6	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	15.9	16.1	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.7	8.0	7.9	
Dasc Namber (DIV)	my Normy	AOTIVI DE000	0.0	0.7	0.0	1.0	



## **OIL ANALYSIS REPORT**



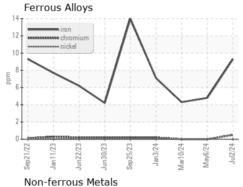


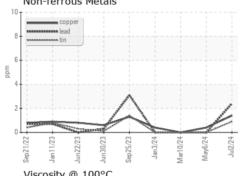


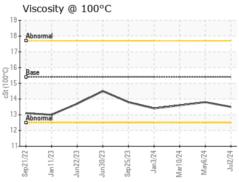
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

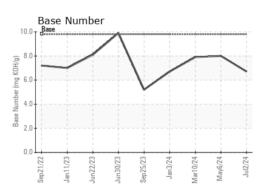
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.8	13.6

## **GRAPHS**













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06232128 Unique Number : 11115621

Test Package : FLEET

: GFL0120596

Received : 10 Jul 2024 **Tested** : 11 Jul 2024

Diagnosed : 11 Jul 2024 - Wes Davis

GFL Environmental - 904 - Chippewa Falls HC

11888 & 11863 30th Avenue Chippewa Falls, WI US 54729

Contact: Andy Kane

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: (715)202-3420 F: