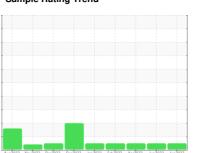


# **OIL ANALYSIS REPORT**

### Sample Rating Trend









Machine Id **412044** Component **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

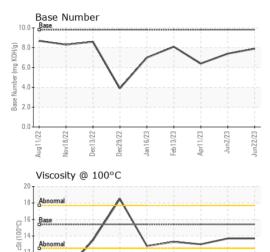
### **Fluid Condition**

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

ON SHP 15W40 ( GAL)  Augici Vector Dector Dector Station April Station Stat						
SAMPLE INFORI	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0045431	GFL0045407	GFL0064601
Sample Date		Client Info		22 Jun 2023	02 Jun 2023	11 Apr 2023
Machine Age	hrs	Client Info		0	2663	0
Oil Age	hrs	Client Info		0	1372	0
Oil Changed		Client Info		N/A	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS method limit/base current history 1 history 2						
Iron	ppm	ASTM D5185m	>120	12	9	11
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>5	2	2	1
Titanium	ppm	ASTM D5185m		- <1	0	<1
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	1	2	4
Lead	ppm	ASTM D5185m	>40	<1	0	1
Copper	ppm	ASTM D5185m	>330	4	2	6
Tin	ppm	ASTM D5185m	>15	1	2	2
Vanadium	ppm	ASTM D5185m	>10	0	<1	1
Cadmium	ppm	ASTM D5185m		<1	0	<1
	ррпп		11 11 11			
ADDITIVES		method	limit/base		history 1	history 2
Boron	ppm	ASTM D5185m	0	12	16	120
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	66	65	83
Manganese	ppm	ASTM D5185m	0	<1	<1	2
Magnesium	ppm	ASTM D5185m	1010	936	958	634
Calcium	ppm	ASTM D5185m	1070	1154	1153	1136
Phosphorus	ppm	ASTM D5185m	1150	977	1053	741
Zinc	ppm	ASTM D5185m	1270	1262	1363	976
Sulfur	ppm	ASTM D5185m	2060	3224	3639	2615
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	6	5	6
Sodium	ppm	ASTM D5185m		3	2	5
Potassium	ppm	ASTM D5185m	>20	8	6	5
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>4	0.4	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.3	7.3	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	20.3	20.8
FLUID DEGRADATION method limit/base current history 1 history 2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	16.6	15.7
Base Number (BN)	mg KOH/g		9.8	7.9	7.4	6.4
( (			5.0			J



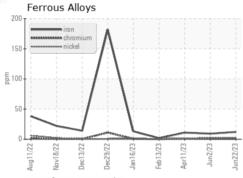
## **OIL ANALYSIS REPORT**

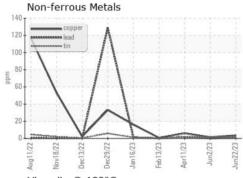


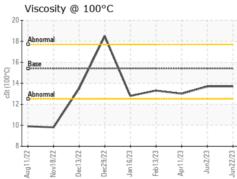
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

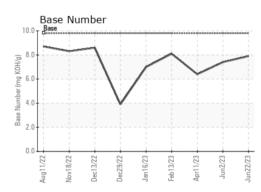
FLUID PROPE	RHES	method			history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.7	13.0

### **GRAPHS**













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10535870 Test Package : FLEET

: GFL0045431 : 05885387

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Jun 2023 : 30 Jun 2023 Diagnosed

Diagnostician : Wes Davis

GFL environmental - 867 - Trafford (Blount Hauling)

1130 County Line Rd Trafford, AL US 35172

Contact: Jonathan Williams jonathan.williams@gflenv.com T:

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)

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