

# **OIL ANALYSIS REPORT**

## Sample Rating Trend









Machine Id
427124
Component
Diesel Engine

PETRO CANADA DURON SHP 15W40 (40 QTS)

# 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

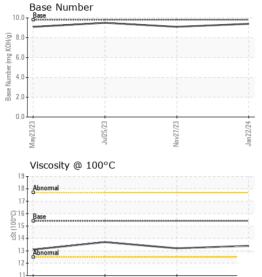
## **Fluid Condition**

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

		May202	3 Jul2023	Nov2023 J	an2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092867	WC0838326	GFL0085617
Sample Date		Client Info		22 Jan 2024	27 Nov 2023	25 Jul 2023
Machine Age	hrs	Client Info		3335	3084	2506
Oil Age	hrs	Client Info		251	578	345
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	4	5	6
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	3
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	3	6	2
Tin	ppm	ASTM D5185m		<1	<1	<1
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	4	4	5
Barium	ppm	ASTM D5185m	0	0	5	0
Molybdenum	ppm	ASTM D5185m	60	55	60	56
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	906	893	888
Calcium	ppm	ASTM D5185m	1070	1049	1101	1058
Phosphorus	ppm	ASTM D5185m	1150	993	1015	997
Zinc	ppm	ASTM D5185m	1270	1172	1187	1182
Sulfur	ppm	ASTM D5185m	2060	3316	3373	3332
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	3
Sodium	ppm	ASTM D5185m		4	0	<1
Potassium	ppm	ASTM D5185m	>20	2	3	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	5.5	6.9	6.3
Sulfation	Abs/.1mm	*ASTM D7415		17.8	18.3	18.1
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2	13.7	13.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.4	9.1	9.5
(2.4)	3					



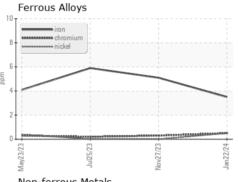
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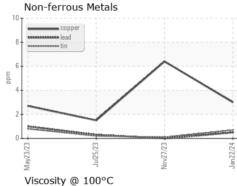


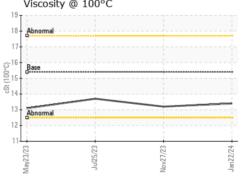
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

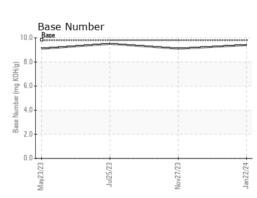
FLUID PROPI	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.2	13.7

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10847649 Test Package : FLEET

: GFL0092867 : 06070972

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 25 Jan 2024 Diagnosed

: 26 Jan 2024 Diagnostician : Wes Davis

GFL Environmental - 411 - Kingsford HC

1001 E Blvd Kingsford, MI US 49802

Contact: Service Manager

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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F: