

# **OIL ANALYSIS REPORT**

## Sample Rating Trend





Machine Id
728056-8
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (--- LTR)

## 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

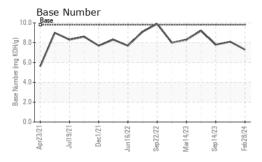
## **Fluid Condition**

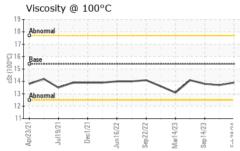
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

N SHP 15W40 (-	LTR)	Apr2021 Ju	12021 Dec2021 Jun20	22 Sep2022 Mar2023 Sep20	23 Feb2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0058083	GFL0100171	GFL0058040
Sample Date		Client Info		28 Feb 2024	04 Dec 2023	14 Sep 2023
Machine Age	hrs	Client Info		13398	12821	12256
Oil Age	hrs	Client Info		577	565	507
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
- uel		WC Method	>5	<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
ron	ppm	ASTM D5185m	>80	25	25	20
Chromium	ppm	ASTM D5185m	>5	1	<1	1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Γitanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>30	4	2	3
_ead	ppm	ASTM D5185m	>30	0	0	<1
Copper	ppm	ASTM D5185m	>150	<1	1	1
Γin	ppm	ASTM D5185m	>5	<1	0	1
/anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	2	2
Barium	ppm	ASTM D5185m	0	0	0	44
Molybdenum	ppm	ASTM D5185m	60	62	63	55
Manganese	ppm	ASTM D5185m		<1	0	1
Magnesium	ppm	ASTM D5185m	1010	981	931	872
Calcium	ppm	ASTM D5185m	1070	1052	1098	955
Phosphorus	ppm	ASTM D5185m	1150	1026	1038	923
Zinc	ppm	ASTM D5185m	1270	1310	1234	1146
Sulfur	ppm	ASTM D5185m	2060	3221	3033	3114
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	6	6	7
Sodium	ppm	ASTM D5185m		6	3	6
Potassium	ppm	ASTM D5185m	>20	1	3	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.7	0.6
Nitration	Abs/cm	*ASTM D7624	>20	9.9	9.4	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	19.9	18.7
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
FLUID DEGRAI	DATION Abs/.1mm	method *ASTM D7414	limit/base	current 17.2	history1 17.0	history2 15.5



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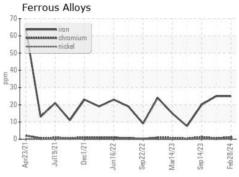


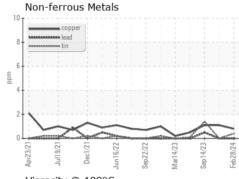


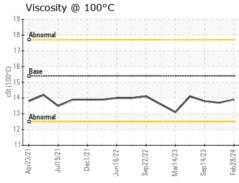
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

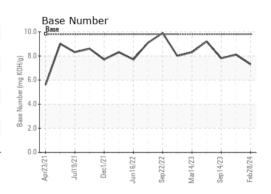
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.7	13.8

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number : 06104071

: GFL0058083

Unique Number : 10902301 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 Feb 2024

**Tested** : 29 Feb 2024 Diagnosed : 29 Feb 2024 - Wes Davis

GFL Environmental - 657 - Charlottesville Hauling

5498 Richmond Road Troy, VA US 22974

Contact: Brian Ulickas bulickas@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: GFL657 [WUSCAR] 06104071 (Generated: 02/29/2024 15:42:47) Rev: 1

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