

## **OIL ANALYSIS REPORT**

SAMPLE INFORMATIO

CONTAMINATION

hrs

hrs

Sample Number

Sample Date

Machine Age

Oil Changed

Sample Status

Oil Age

Fuel

Glycol

### NORMAL

#### Machine Ic 10690

Component **Diesel Engine** 

Eluid

## PETRO CANADA DURON SHP 15W40 (7 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.

DN	nethod	May2019 Aug2020	New2021 Oc2022 Med023	history1	history2
אול		IIIIII/Dase	current		
	Client Info		GFL0091446	GFL0088714	GFL0086154
	Client Info		28 Aug 2023	16 Aug 2023	15 Jul 2023
	Client Info		19432	19285	19114
	Client Info		603	456	765
	Client Info		Not Changd	Not Changd	Not Changd
			NORMAL	NORMAL	NORMAL
	method	limit/base	current	history1	history2
	WC Method WC Method	>3.0	<1.0 NEG	<1.0 NEG	<1.0 NEG
	method	limit/base	current	history1	history2

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	68	55	37
Chromium	ppm	ASTM D5185m	>5	2	2	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	11	7	6
Lead	ppm	ASTM D5185m	>25	0	1	0
Copper	ppm	ASTM D5185m	>100	20	19	18
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0

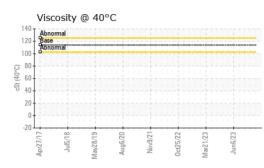
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	8	6	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	60	61
Manganese	ppm	ASTM D5185m	0	1	1	1
Magnesium	ppm	ASTM D5185m	1010	822	793	810
Calcium	ppm	ASTM D5185m	1070	1106	1151	1113
Phosphorus	ppm	ASTM D5185m	1150	921	914	939
Zinc	ppm	ASTM D5185m	1270	1205	1144	1170
Sulfur	ppm	ASTM D5185m	2060	3072	3037	3337
	ITO	ام م مالا م میں			binter of	hists

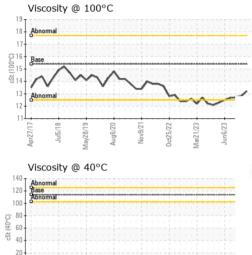
		methou			mistory	riistor y z
Silicon	ppm	ASTM D5185m	>25	11	9	6
Sodium	ppm	ASTM D5185m		7	8	4
Potassium	ppm	ASTM D5185m	>20	1	3	1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	2.8	2.5	1.8
Nitration	Abs/cm	*ASTM D7624	>20	12.2	9.3	7.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.6	21.9	19.9
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	13.3	12.3
Base Number (BN)	ma KOH/a	ASTM D2896	9.8	4.6	6.1	8.0



# **OIL ANALYSIS REPORT**





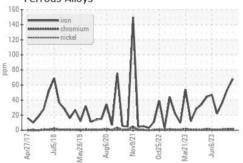
Dct25/22

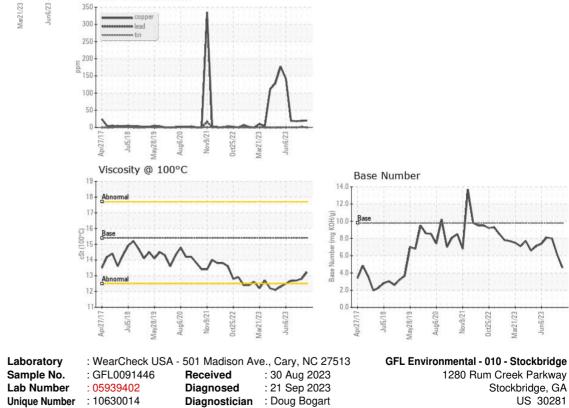
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.22	12.8	12.7
GRAPHS						

Ferrous Alloys

Non-ferrous Metals

350







0

-20 Apr27/17

Jul5/18

w28/19

Aug6/20

10v9/71

Test Package : FLEET (Additional Tests: KV40) Certificate L2367 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) Contact: JOSHUA TINKER

joshuatinker@gflenv.com

Т:

F: