

## **OIL ANALYSIS REPORT**

Sample Rating Trend





Recommendation

Contamination

Fluid Condition

Wear

oil.

Machine Id **4676M** Component **Diesel Engine** 

Fluid

Resample at the next service interval to monitor.

There is no indication of any contamination in the

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

oil is suitable for further service.

All component wear rates are normal.

## PETRO CANADA DURON SHP 15W40 (--- GAL

N SHP 15W40 (		Apr2021	-	121 Jan2022 Feb2022 Jul2022	Nov2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0101523	GFL0055140	GFL0042324
Sample Date		Client Info		16 Nov 2023	01 Jul 2022	02 Feb 2022
Machine Age	hrs	Client Info		13579	11894	10695
Oil Age	hrs	Client Info		11894	10695	10513
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	41	29	7
Chromium	ppm	ASTM D5185m	>5	2	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>30	4	3	<1
Lead	ppm	ASTM D5185m	>30	0	0	<1
Copper	ppm	ASTM D5185m	>150	2	1	<1
Tin	ppm	ASTM D5185m	>5	0	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	6	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	52	63	58
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	810	925	984
Calcium	ppm	ASTM D5185m	1070	929	1113	1136
Phosphorus	ppm	ASTM D5185m	1150	855	1007	1028
Zinc	ppm	ASTM D5185m	1270	1133	1258	1127
Sulfur	ppm	ASTM D5185m	2060	2239	3486	2422
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	7	3	3
Sodium	ppm	ASTM D5185m		10	6	0
Potassium	ppm	ASTM D5185m	>20	3	1	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1	0.6	0.1
Nitration	Abs/cm	*ASTM D7624	>20	14.3	10.2	6.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.7	20.7	19.3
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.2	17.7	14.8
	1/01/1	AOTH DOCCO	0.0		= 0	

5.1

Base Number (BN) mg KOH/g ASTM D2896 9.8

10

7.8



12

Vor20/21

Abnorma

un23/71

## **OIL ANALYSIS REPORT**

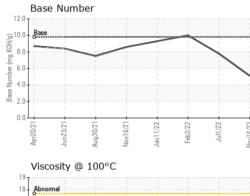
scalar

\*Visual

NONE

VISUAL

White Metal



Feb2/22

lan11/22

Inv16/21

ua30/7



NONE

NONE

NONE

\* - 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)

Certificate L2367

F: