

## **OIL ANALYSIS REPORT**

Sample Rating Trend





Resample at the next service interval to monitor.

There is no indication of any contamination in the

alkalinity remaining in the oil. The condition of the

The BN result indicates that there is suitable

All component wear rates are normal.

oil is suitable for further service.

DIAGNOSIS

Recommendation

Contamination

Fluid Condition

Wear

oil.

**Diesel Engine** 

## PETRO CANADA DURON SHP 15W40 (9 GAL)

Ν Calcium

Zinc

Sulfur

Silicon

Sodium

Soot %

Nitration

Sulfation

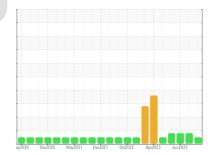
Oxidation

Potassium

**INFRA-RED** 

Phosphorus

CONTAMINANTS





SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0102980	PCA0102955	PCA0098097
Sample Date		Client Info		25 Aug 2023	28 Jul 2023	23 Jun 2023
Machine Age	hrs	Client Info		19317	19135	18861
Oil Age	hrs	Client Info		182	274	91
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	ABNORMAL
CONTAMINATIO	NC	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	11	22	11
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>5	4	<b>1</b> 1	<u> </u>
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	10	4
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	3	5	3
Tin	ppm	ASTM D5185m	>15	<1	2	<1
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	0	<1	1
Barium	ppm	ASTM D5185m	0	0	1	0
Molybdenum	ppm	ASTM D5185m	60	66	65	59
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1049	930	889
<b>A</b> + 1		AOTH DEVOE	1070		1110	1000

1160

1052

1291

3414

5

13

3

0.4

8.4

19.8

16.1

7.3

1140

1009

1232

2691

6

12

29

0.8

10.3

23.1

18.8

6.1

1060

1175

3410

4

9

18

0.5

8.6

20.8

17.4

6.4

946

ASTM D5185m 1070

ASTM D5185m 1270

1150

2060

>25

>20

>30

>25

ASTM D5185m

ASTM D5185m

ASTM D5185m

ASTM D5185m

ASTM D5185m

Abs/cm \*ASTM D7624 >20

Abs/.1mm \*ASTM D7415

Abs/.1mm \*ASTM D7414

\*ASTM D7844 >4

ppm

ppm

ppm

ppm

ppm

ppm

ppm

%

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

FLUID DEGRADATION method

Report Id: ORIBET [WUSCAR] 05941715 (Generated: 09/05/2023 20:24:49) Rev: 1



cSt (100°C) 1 Bas

Abnorma 12

0/2/02-aC

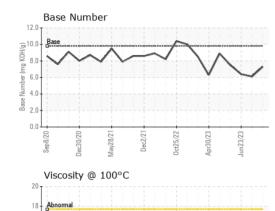
1 C/8 C/v= IV

01/171

nr30/73

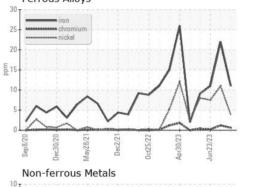
Sep8/20

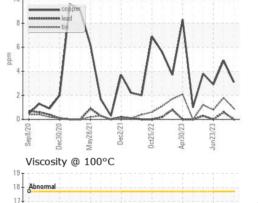
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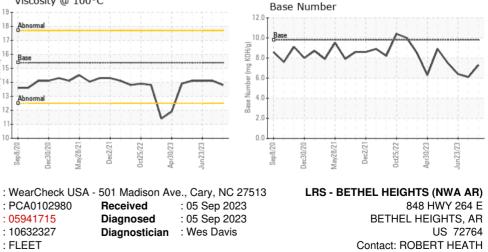


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
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	13.8	14.1	14.1
GRAPHS						

Ferrous Alloys







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Test Package : FLEET 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)

Dec2/21

Received

Diagnosed

Apr30/23

Laboratory

Sample No.

Lab Number

Unique Number

16

11 10

Ab 12

Sep8/20

Dec30/20

: PCA0102980

: 05941715 : 10632327

Mav28/21

cSt (100°C)

Report Id: ORIBET [WUSCAR] 05941715 (Generated: 09/05/2023 20:24:50) Rev: 1

Submitted By: ALSO ORIVANAR ORIHAR ORITOP - JAMIE HAYWORTH