

PETRO CANADA DURON SHP 15W40 (10 GAL)

Machine Id **12022** Component Diesel Engine

## **OIL ANALYSIS REPORT**

#### Sample Rating Trend

#### NORMAL



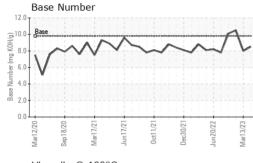


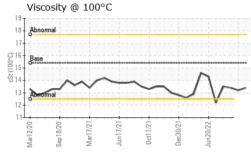
### 2020 Sm2020 M=2021 Lm3021 0-4021 0-4021 1 200 1 1

DIAGNOSIS	SAMPLE INFOR		method	limit/base	current	history1	history2
ecommendation	Sample Number		Client Info	- 1111/0450	PCA0077267	PCA0077339	PCA0077312
esample at the next service interval to monitor.	Sample Date		Client Info		24 May 2023	13 Mar 2023	21 Dec 2022
	Machine Age	bro	Client Info		24 May 2023 8883	8548	8062
ear	Oil Age	hrs hrs	Client Info		335	486	191
component wear rates are normal.	-	1115					
ontamination	Oil Changed		Client Info		Changed NORMAL	Changed NORMAL	Changed NORMAL
here is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORIVIAL
uid Condition	CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
e BN result indicates that there is suitable	Fuel		WC Method	>5	<1.0	<1.0	<1.0
alinity remaining in the oil. The condition of the	Glycol		WC Method		NEG	NEG	NEG
is suitable for further service.	WEAR META	_S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>100	20	24	7
	Chromium	ppm	ASTM D5185m	>20	1	1	<1
	Nickel	ppm	ASTM D5185m	>4	<1	<1	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>20	8	5	<1
	Lead	ppm	ASTM D5185m		1	0	0
	Copper	ppm	ASTM D5185m		<1	2	2
	Tin	ppm	ASTM D5185m		<1	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	23	7	15
	Barium	ppm	ASTM D5185m		0	<1	0
	Molybdenum		ASTM D5185m		74	59	67
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	974	841	833
	Calcium	ppm	ASTM D5185m		1300	1103	1230
		ppm				919	
	Phosphorus	ppm	ASTM D5185m		1115		1019
	Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m		1364 3787	1202 3411	1206 3679
	CONTAMINA	ppm					
				limit/base		history1	history2
	Silicon	ppm	ASTM D5185m	>20	8 5	6	2
	Sodium	ppm	ASTM D5185m	× 20		3	<1
	Potassium	ppm	ASTM D5185m	>20	13	4	2
	INFRA-RED		method	limit/base		history1	history2
	Soot %	%	*ASTM D7844		0.5	0.7	0.3
	Nitration	Abs/cm	*ASTM D7624		7.5	8.8	7.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	19.7	18.9
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	FLUID DEGRA Oxidation		method *ASTM D7414		current	history1 15.5	history2 13.7



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VISUAL		method	limit/base	current	history1	history
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	history
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.2	13.4
GRAPHS						
Ferrous Alloys						
iron						
30 and a chromium						
nickel		Λ				
25		1				
	AA		N			
	$\Lambda \Lambda$	A / 1	1			
		A / I				
	11/1	1111				
	///	$\Lambda \Pi$	1			
	(V)	//	1			
10	/ / /	VV				
	/ ۷ ۱	/V				
	///	VV				
		120	EZA			
	pet 1/21	lec30/21	ar13/23			
Mar1220 0 0 5 0		Dec30/21	Mar13/23			
Non-ferrous Metal		Dec30/21	Mari3/23			
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		De:3021	Mart3/23			
0 0 0 0 0 0 0 0 0 0 0 0 0 0		De:30/21	Mart3/23			
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Dec30/21	Mar13/23			
0 5 0 0 0 0 0 0 0 0 0 0 0 0 0		Dec30/21 Jun20/22	Mar13/23			
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Dec30/21	Mar13/23			
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Dec30/21	Marial23			
Non-ferrous Metal		De:30/21	Maria/23			
Non-ferrous Metal	S					
Non-ferrous Metal	S		arl 3/23			
Non-ferrous Metal	0ct11/21		Mar13/23			
Non-ferrous Metal	0ct11/21		Mari 3/23	Base Number		
Non-ferrous Metal	0ct11/21		arl 3/23			
Non-ferrous Metal	0ct11/21		CZ/CLIPBW 12.0 10.0			
Non-ferrous Metal	0ct11/21		CZ/CLIPBW 12.0 10.0	Base		
Non-ferrous Metal	0ct11/21		CZ/CLIPBW 12.0 10.0	Base	~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Non-ferrous Metal	0ct11/21		CZ/CLIPBW 12.0 10.0	Base	~~~	$\sim$
Non-ferrous Metal	0ct11/21		12.0 (9)HOJ Bu	Base	~~~	$\sim$

0.0

Mar12/20 -

Sep18/20

Mar13/23 -

: 30 May 2023

: 30 May 2023

un20/22

Dec30/21

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received

Diagnosed



 Unique Number
 : 10493425
 Diagnostician
 : Wes Davis

 Certificate L2367
 Test Package
 : FLEET

 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)

Mar17/21

Jun17/21

Mar12/20 -

Laboratory

Sample No.

Lab Number

Sep18/20

: PCA0077267

: 05858960

Oct11/21-

Jec30/21

Jun17/21

Mar17/21

un20/22

Aar13/23