

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

### 632653

# PETRO CANADA DURON SHP 10W30 (--- 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.

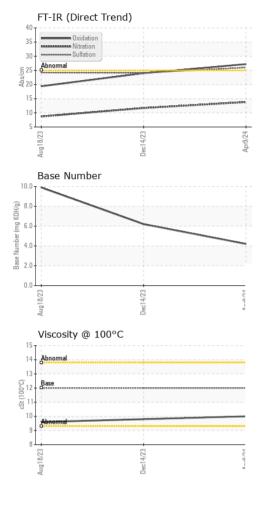
#### Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0123931	PCA0115244	PCA0104302
Sample Date		Client Info		09 Apr 2024	14 Dec 2023	18 Aug 2023
Machine Age	mls	Client Info		15390	7410	1177
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	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 METALS	S .	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	53	33	29
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	11	10	6
Lead	ppm	ASTM D5185m	>40	1	0	0
Copper	ppm	ASTM D5185m	>330	156	150	49
Tin	ppm	ASTM D5185m	>15	6	3	2
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	39	132	354
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	50	119	103	105
Manganese	ppm	ASTM D5185m	0	5	4	3
Magnesium	ppm	ASTM D5185m	950			
Calcium				702	681	766
	ppm	ASTM D5185m	1050	702 1385	681 1367	766 1407
Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m	1050 995	-		
Phosphorus Zinc		ASTM D5185m		1385	1367	1407
•	ppm	ASTM D5185m	995	1385 658	1367 755	1407 790
Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m	995 1180	1385 658 901	1367 755 902	1407 790 969
Zinc Sulfur	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	995 1180 2600 limit/base	1385 658 901 2310	1367 755 902 2374	1407 790 969 3232
Zinc Sulfur CONTAMINAN	ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m method	995 1180 2600 limit/base	1385 658 901 2310 current	1367 755 902 2374 history1	1407 790 969 3232 history2
Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm TS ppm	ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	995 1180 2600 limit/base >25	1385 658 901 2310 current 47	1367 755 902 2374 history1 48	1407 790 969 3232 history2 45
Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	995 1180 2600 limit/base >25	1385 658 901 2310 current 47 <1	1367 755 902 2374 history1 48 2	1407 790 969 3232 history2 45 11
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	995 1180 2600 imit/base >25 >20	1385 658 901 2310 current 47 <1 31	1367 755 902 2374 history1 48 2 20	1407 790 969 3232 history2 45 11 8
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method	995 1180 2600 imit/base >25 >20 imit/base >3	1385 658 901 2310 current 47 <1 31 current	1367 755 902 2374 history1 48 2 20 history1	1407 790 969 3232 history2 45 11 8 kistory2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844	995 1180 2600 imit/base >25 >20 imit/base >3	1385 658 901 2310 current 47 <1 31 current 0.4	1367 755 902 2374 history1 48 2 20 history1 0.2	1407 790 969 3232 history2 45 11 8 history2 0.6
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm TS ppm ppm ppm ppm % Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7844 *ASTM D7844	995 1180 2600 >25 >20 imit/base >3 >20	1385 658 901 2310 current 47 <1 31 current 0.4 13.8	1367 755 902 2374 history1 48 2 20 history1 0.2 11.7	1407 790 969 3232 history2 45 11 8 history2 0.6 8.7
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm TS ppm ppm ppm ppm % Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7844 *ASTM D7844	995 1180 2600 255 >20 1imit/base >3 >20 >30	1385 658 901 2310 current 47 <1 31 current 0.4 13.8 26.0	1367 755 902 2374 history1 48 2 20 history1 0.2 11.7 24.1	1407 790 969 3232 history2 45 11 8 history2 0.6 8.7 24.2



## **OIL ANALYSIS REPORT**



VISUAL		method	limit/base	current	t 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 PROPER	RTIES	method	limit/base	current	t history1	history2	
Visc @ 100°C	cSt	ASTM D445	12.00	10.0	9.8	9.6	
GRAPHS							
Iron (ppm)			100	Lead (ppn	n)		
50 Severe			100	Severe	1	1	
			60				
50 - Abnormal			40	Abnormal		1	
50			20				
0							
Aug 18/23	Dec14/23		Apr9/24	Aug18/23	Dec14/23	Anr9/24	
Aug	Dec		Ap	Aug	Deci	An	
Aluminum (ppm)			50	Chromium	n (ppm)		
50 Severe	1		50	Severe	1	1	
20							
20 Abnormal			20	Abnormal		1	
10			10	-			
0			0				
Aug18/23	Dec14/23		Apr9/24	Aug18/23	Dec14/23	Aor9/24	
Aug	Dec		Ap	Bng	Dec	Ac	
Copper (ppm)			0.0	Silicon (pp	om)		
00 Severe			80	Severe	1		
00			60	-			
00 -			톱 40	A1			
00				Abnormal			
0			0	L			
Aug18/23	Dec14/23 .		Apr9/24 -	Aug18/23 -	Dec14/23	Ant9/24 .	
Aug	Dec1		Ap	Aug	Dec1	April	
Viscosity @ 100°C				Base Num	iber		
16			10.0 P				
14 Abnormal	nniaaaaa		HO 8.0				
12 Base			(b)(HO) 8.0 (b)(HO) 6.0 (b)(HO) 80 (b)(HO) 80 (b)(HO) 80 (c)(HO) 8				
			4.0 mN 3.0				
			2.0				
	4/23 -		Apr9/24	8/23	4/23 -	- 104	
Aug18/23	Dec14/23		Apri	Aug 18/23	Dec14/23	Aor9/24	
VearCheck USA - 501 Madison Ave., Cary, NC 27513 CA0123931 <b>Received</b> : 23 Apr 2024 6157264 <b>Tested</b> : 24 Apr 2024 0992687 <b>Diagnosed</b> : 25 Apr 2024 - Jonathan Hester 1OB 1 (Additional Tests: TBN ) <i>Intact Customer Service at 1-800-237-1369.</i>					MILLER TRUCK LEASING #119 39 INDUSTRIAL AVE HASBROUCK HEIGHTS, N. US 07604 Contact: MIKE LONGETTE mlongette@millertransgroup.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.

Laboratory Sample No. Lab Number Unique Number Test Package

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (201)528-7053

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Certificate L2367

Contact/Location: MIKE LONGETTE - MILRUT

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