

## **OIL ANALYSIS REPORT**







Machine Id **161** Component **Diesel Engine** Fluid

PETRO CANADA DURON SHP 10W30 (--- QTS)

## 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 acceptable for the time in service.

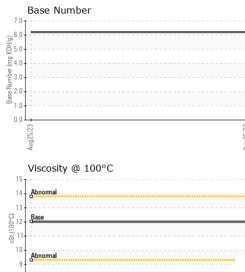
SAMPLE INFORI		method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0099815		
Sample Date		Client Info		25 Aug 2023		
Machine Age	mls	Client Info		444542		
Oil Age	mls	Client Info		10042		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT		method	limit/base	current	history1	history2
					HIStory	TIIStOLYZ
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	52		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>4	- <1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	2		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	1		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
		method			history1	history2
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	174		
Boron Barium	ppm	ASTM D5185m ASTM D5185m	2 0	174 0		
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50	174 0 7		
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0	174 0 7 <1		
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950	174 0 7 <1 37		
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050	174 0 7 <1 37 2343	  	   
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995	174 0 7 <1 37 2343 1058		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180	174 0 7 <1 37 2343 1058 1271	    	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995	174 0 7 <1 37 2343 1058		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180	174 0 7 <1 37 2343 1058 1271	    	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600	174 0 7 <1 37 2343 1058 1271 4250		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600	174 0 7 <1 37 2343 1058 1271 4250 current	     history1	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 <b>limit/base</b> >25	174 0 7 <1 37 2343 1058 1271 4250 current 7	     history1	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600 <b>imit/base</b> >25 >20	174 0 7 <1 37 2343 1058 1271 4250 current 7 3 8	     history1  	     history2  
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 <b>limit/base</b> >25 >20 <b>limit/base</b>	174 0 7 <1 37 2343 1058 1271 4250 current 7 3 8 8	     history1   history1	     history2    history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 <b>Imit/base</b> >25 >20 <b>Imit/base</b> >3	174 0 7 <1 37 2343 1058 1271 4250 <i>current</i> 7 3 8 <i>current</i> 0.3	     history1   history1  history1	      history2   history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600 <i>imit/base</i> >25 >20 <i>imit/base</i>	174 0 7 <1 37 2343 1058 1271 4250 current 7 3 8 current 0.3 9.6	      history1   history1	     history2   history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 <b>Imit/base</b> >25 >20 <b>Imit/base</b> >3	174 0 7 <1 37 2343 1058 1271 4250 <i>current</i> 7 3 8 <i>current</i> 0.3	     history1   history1  history1	      history2   history2  
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600 <i>imit/base</i> >25 >20 <i>imit/base</i>	174 0 7 <1 37 2343 1058 1271 4250 current 7 3 8 current 0.3 9.6	      history1   history1	     history2   history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 <b>imit/base</b> >25 20 <b>imit/base</b> >3 >20 >30	174 0 7 <1 37 2343 1058 1271 4250 current 7 3 8 current 0.3 9.6 22.3	     history1   history1  history1	    history2  history2  history2
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8 Aug25/23

# **OIL ANALYSIS REPORT**

VISUAL



Certificate 12367         Test Package         : FLEET         Contact: TARA MUIRHEAD           to discuss this sample report, contact Customer Service at 1-800-237-1369.         tara.muirhead@gfsinc.ne           - Denotes test methods that are outside of the ISO 17025 scope of accreditation.         T		VISUAL		methoa	iimii/base	current	nistory i	nistory2
Precipitale scalar Visual NONE NONE But scalar Visual NONE NONE SandDiff iscalar Visual NONE NONE SandDiff iscalar Visual NORM NORM SandDiff iscalar Visual NORM NORM NORM NORM NORM NORM NEG FLUID PROPERTIES method limitbase current Halory1 history2 Visca 100°C cSi ASTM D45 12.00 12.0 Ferous Alloys   Visca 100°C cSi ASTM D45 12.00 12.0  Visca 100°C cSi ASTM D45 12.00 12.0  Visca 100°C cSi ASTM D45 12.00 12.0   Visca 100°C cSi ASTM D45 12.00 12.0    		White Metal	scalar	*Visual	NONE	NONE		
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Appearance scalar Visual NORML NORML		Sand/Dirt	scalar	*Visual	NONE	NONE		
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Simple No.       WearCheck USA - 501 Madison Ave., Cary, NC 2751. Sample No.       Sample No.       Sample No.         Simple No.       PCAOD999815       Received ::::::::::::::::::::::::::::::::::::		Ferrous Alloys						
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Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : PCA0099815 Received :: 05 Sep 2023 Lab Number : 1065941706 Diagnosed :: 06 Sep 2023 Unique Number : 1065941706 Diagnosed :: 06 Sep 2023 Unique Number : 105941706 Diagnosed :: 06 Sep 2023 Unique State : 155 Sep 2023 Diagnostical :: Sean Felton ::			als		4			
Laboratory WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. PCA0099815 Received : 05 Sep 2023 Lab Number : 10532318 Diagnosed : 05 Sep 2023 Test Package : FLEET - 0 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.		<sup>10</sup> T						
Image: Second State Sta		nananananan lead						
Image: Sample Ro.       PCA0099815       Pickage :       File Package :       File Packag		8 - tin						
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Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : PCA0099815 Lab Number : 05941706 Unique Number : 10632318 Diagnosed : 06 Sep 2023 Test Package : FLEET o 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.			c		A			
Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : PCA0099815 Received :: 05 Sep 2023 Lab Number :: 05941706 Diagnosed :: 06 Sep 2023 Unique Number :: 10632318 Diagnostician :: Sean Felton Unique Number :: 10632318 Diagnostician :: Sean Felton O 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.					7.0			
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Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : PCA0099815 Received : 05 Sep 2023 Lab Number : 05941706 Diagnosed : 06 Sep 2023 Unique Number : 10632318 Diagnostician : Sean Felton 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.								
Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : PCA0099815 Received : 05 Sep 2023 Lab Number : 05941706 Diagnosed : 06 Sep 2023 Unique Number : 10632318 Diagnostician : Sean Felton 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.					HO 5.0			
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Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : PCA0099815 Received : 05 Sep 2023 Lab Number : 05941706 Diagnosed : 06 Sep 2023 Unique Number : 10632318 Diagnostician : Sean Felton 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.					巖 2.0			
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Laboratory       : WearCheck USA - 501 Madison Ave., Cary, NC 27513       GAS FIELD SPECIALISTS         Sample No.       : PCA0099815       Received       : 05 Sep 2023       114 PA-660         Lab Number       : 05941706       Diagnosed       : 06 Sep 2023       MANSFIELD, P/         Unique Number       : 10632318       Diagnostician       : Sean Felton       US 16933         Certificate 12367       Test Package       : FLEET       Contact: TARA MUIRHEAD         to discuss this sample report, contact Customer Service at 1-800-237-1369.       Contact: TARA MUIRHEAD       tara.muirhead@gfsinc.net         - Denotes test methods that are outside of the ISO 17025 scope of accreditation.       Test       Test       Test		8				L		
Laboratory       : WearCheck USA - 501 Madison Ave., Cary, NC 27513       GAS FIELD SPECIALISTS         Sample No.       : PCA0099815       Received       : 05 Sep 2023       114 PA-660         Lab Number       : 05941706       Diagnosed       : 06 Sep 2023       MANSFIELD, P/         Unique Number       : 10632318       Diagnostician       : Sean Felton       US 16933         Certificate 12367       Test Package       : FLEET       Contact: TARA MUIRHEAD         to discuss this sample report, contact Customer Service at 1-800-237-1369.       Contact: TARA MUIRHEAD       tara.muirhead@gfsinc.net         - Denotes test methods that are outside of the ISO 17025 scope of accreditation.       Test       Test       Test		325/2.			125/2	J25/2		25/23
Sample No.       : PCA0099815       Received       : 05 Sep 2023       114 PA-66         Lab Number       : 05941706       Diagnosed       : 06 Sep 2023       MANSFIELD, P/         Unique Number       : 10632318       Diagnostician       : Sean Felton       US 16933         Certificate 12367       Test Package       : FLEET       Contact: TARA MUIRHEAD         to discuss this sample report, contact Customer Service at 1-800-237-1369.       tara.muirhead@gfsinc.net         - Denotes test methods that are outside of the ISO 17025 scope of accreditation.       T		Auç			Auç	Auç		Aug
Sample No.       : PCA0099815       Received       : 05 Sep 2023       114 PA-66         Lab Number       : 05941706       Diagnosed       : 06 Sep 2023       MANSFIELD, P/         Unique Number       : 10632318       Diagnostician       : Sean Felton       US 16933         Certificate 12367       Test Package       : FLEET       Contact: TARA MUIRHEAD         to discuss this sample report, contact Customer Service at 1-800-237-1369.       tara.muirhead@gfsinc.net         - Denotes test methods that are outside of the ISO 17025 scope of accreditation.       T	I sharatarra	· MoorChook USA	501 Madia	on Ava C-	NC 07E10			
Lab Number       : 05941706       Diagnosed       : 06 Sep 2023       MANSFIELD, P/         Unique Number       : 10632318       Diagnostician       : Sean Felton       US 16933         Certificate 12367       Test Package       : FLEET       Contact: TARA MUIRHEAD         to discuss this sample report, contact Customer Service at 1-800-237-1369.       tara.muirhead@gfsinc.net         - Denotes test methods that are outside of the ISO 17025 scope of accreditation.       T						)	GAS FIELD	
Unique Number         : 10632318         Diagnostician         : Sean Felton         US 16933           Centificate 12367         Test Package         : FLEET         Contact: TARA MUIRHEAD           o discuss this sample report, contact Customer Service at 1-800-237-1369.         tara.muirhead@gfsinc.ne           - Denotes test methods that are outside of the ISO 17025 scope of accreditation.         T							M	
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Contact/Location: TARA MUIRHEAD - GASMAN