

## **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id 710034 Component Diesel Engine

## PETRO CANADA DURON SHP 15W40 (--- LTR)

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

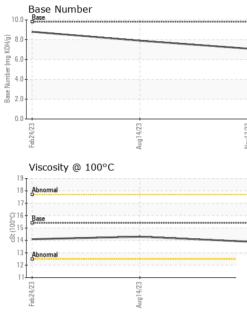
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098421	GFL0089493	GFL0071449
Sample Date		Client Info		13 Nov 2023	14 Aug 2023	24 Feb 2023
Machine Age	hrs	Client Info		5870	5314	4280
Oil Age	hrs	Client Info		5870	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	20	19	14
Chromium	ppm	ASTM D5185m	>5	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>30	2	2	2
Lead	ppm	ASTM D5185m	>30	0	<1	0
Copper	ppm	ASTM D5185m	>150	2	3	2
Tin	ppm	ASTM D5185m	>5	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm		limit/base 0	current 0	history1 0	history2 <1
	ppm ppm					
Boron		ASTM D5185m	0	0	0	<1
Boron Barium	ppm	ASTM D5185m ASTM D5185m	0	0 0	0	<1 0
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60	0 0 61	0 0 63	<1 0 56
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0	0 0 61 0	0 0 63 <1	<1 0 56 <1
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010	0 0 61 0 931	0 0 63 <1 1019	<1 0 56 <1 874
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070	0 0 61 0 931 1067	0 0 63 <1 1019 1149	<1 0 56 <1 874 1031
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	0 0 60 0 1010 1070 1150	0 0 61 0 931 1067 973	0 0 63 <1 1019 1149 1066	<1 0 56 <1 874 1031 956
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	0 0 60 0 1010 1070 1150 1270	0 0 61 0 931 1067 973 1226	0 0 63 <1 1019 1149 1066 1316	<1 0 56 <1 874 1031 956 1147
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 ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060	0 0 61 0 931 1067 973 1226 3063	0 0 63 <1 1019 1149 1066 1316 3614	<1 0 56 <1 874 1031 956 1147 2711
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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 <b>method</b>	0 0 60 1010 1070 1150 1270 2060	0 0 61 0 931 1067 973 1226 3063 <u>current</u> 6	0 0 63 <1 1019 1149 1066 1316 3614 history1 6	<1 0 56 <1 874 1031 956 1147 2711 history2 3
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	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 <b>method</b> ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060 kimit/base >20	0 0 61 0 931 1067 973 1226 3063 <u>current</u> 6 4	0 0 63 <1 1019 1149 1066 1316 3614 <b>history1</b> 6 7	<1 0 56 <1 874 1031 956 1147 2711 <b>history2</b> 3 3 3
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	0 0 60 0 1010 1070 1150 1270 2060 <b>limit/base</b> >20	0 0 61 0 931 1067 973 1226 3063 <u>current</u> 6 4 6	0 0 63 <1 1019 1149 1066 1316 3614 history1 6 7 1	<1 0 56 <1 874 1031 956 1147 2711 history2 3 3 3 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm <b>TS</b> ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 2060 220 220	0 0 61 0 931 1067 973 1226 3063 <u>current</u> 6 4 6 4	0 0 63 <1 1019 1149 1066 1316 3614 history1 6 7 1 history1	<1 0 56 <1 874 1031 956 1147 2711 history2 3 3 3 2 history2
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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	0 0 0 1010 1070 1150 1270 2060 2060 220 200 220 320 320 33 220 330	0 0 61 0 931 1067 973 1226 3063 <u>current</u> 6 4 6 4 6 <u>current</u> 0.5 10.4 20.7	0 0 63 <1 1019 1149 1066 1316 3614 history1 6 7 1 6 7 1 1 history1 0.4 9.6 19.0	<1 0 56 <1 874 1031 956 1147 2711 <b>history2</b> 3 3 3 2 <b>history2</b> 0.4 9.1 18.8



# **OIL ANALYSIS REPORT**

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<b>Base Number Base </b>		Feb2	Aug1		Nov1					
<b>Laboratory</b> : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No.: GFL0098421 Lab Number : 06012040 Unique Number : 005012040 Diagnosed :: 21 Nov 2023 Test Package : FLEET <b>FLEET Contact:</b> David McCall david.mccall@gflenv.com <b>Contact:</b> David McCall david.mccall@gflenv.com <b>Contact:</b> David McCall david.mccall@gflenv.com <b>Contact:</b> David McCall		, -				Base Number				
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Laboratory       : WearCheck USA - 501 Madison Ave., Cary, NC 27513       GFL Environmental - 918 - Hartland HC         Sample No.       : GFL0098421       Received       : 20 Nov 2023       630 E Industrial Drive         Lab Number       : 06012040       Diagnosed       : 21 Nov 2023       Hartland, WI         Unique Number       : 10751184       Diagnostician       : Wes Davis       US 53029         Certificate L2367       Test Package       : FLEET       Contact: David McCall         To discuss this sample report, contact Customer Service at 1-800-237-1369.       david.mccall@gflenv.com         * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.       T: (262)369-3069		341	/23 -			123	/23+	/23 +		
Laboratory       : WearCheck USA - 501 Madison Ave., Cary, NC 27513       GFL Environmental - 918 - Hartland HC         Sample No.       : GFL0098421       Received       : 20 Nov 2023       630 E Industrial Drive         Lab Number       : 06012040       Diagnosed       : 21 Nov 2023       Hartland, WI         Unique Number       : 10751184       Diagnostician       : Wes Davis       US 53029         Certificate L2367       Test Package       : FLEET       Contact: David McCall         To discuss this sample report, contact Customer Service at 1-800-237-1369.       david.mccall@gflenv.com         * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.       T: (262)369-3069		Feb 24	Aug 14		Nov13	Feb 24	Aug 14	Vov13		
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Unique Number         : 10751184         Diagnostician         : Wes Davis         US 53029           Certificate 12367         Test Package         : FLEET         Contact: David McCall           To discuss this sample report, contact Customer Service at 1-800-237-1369.         david.mccall@gflenv.com           * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.         T: (262)369-3069				-			630 E I			
Certificate 12367         Test Package         : FLEET         Contact: David McCall           To discuss this sample report, contact Customer Service at 1-800-237-1369.         david.mccall@gflenv.com           * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.         T: (262)369-3069	ISONCC (7025									
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	* - Denotes test methods that	are outside of the ISO 1	7025 sco	pe of accred	litation.					
	Statements of conformity to spe	cifications are based on t	he simple	acceptance of	decision rule (J	JCGM 106:2012)		F:		

Submitted By: David McCall

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