

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id **714060** Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

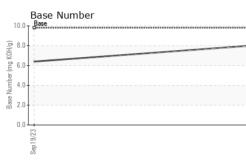
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

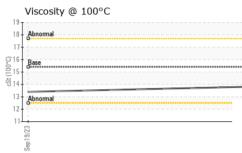
CONTAMINATION method limit/base current history1 history2 Fuel WC Method >3.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG Glycol WC Method NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 0 0 Nickel ppm ASTM D5185m >2 0 0 Silver ppm ASTM D5185m >2 0 0 Lead ppm ASTM D5185m >20 2 14 Copper ppm ASTM D5185m >330 2 14 Cadmium ppm ASTM D5185m 0 0 0 Copper ppm ASTM D5185m 0 0 0 Radium	N SHP 15W40 (- GAL)		Sep2023	Dec2023		
Sample Date Client Info 06 Dec 2023 19 Sep 2023 Machine Age hrs Client Info 1174 511 Oil Age hrs Client Info 600 600 Sample Status Client Info Changed Not Changed Not Changed CONTAMINATION method imit/base current history1 Fuel WC Method >3.0 <1.0 <1.0 WEAR METALS method imit/base current history2 WEAR METALS method imit/base current history2 Vical ppm ASTM D5165n >20 0 0 Sliver ppm ASTM D5165n >20 0 Aluminum ppm ASTM D5165n >20 2 1 Sliver ppm ASTM D5165n >20 2 1	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Date Client Info 06 Dec 2023 19 Sep 2023 Machine Age hrs Client Info 1174 511 Oil Age hrs Client Info 600 600 Oil Changed Client Info 600 Roe Sample Status Imit bos current NoRMAL NORMAL CONTAMINATION method Imit bos current Nistory1 Water WC Method >3.0 <1.0 <1.0 WEAR METALS method Imit boss current history1 history2 Iron ppm ASTM 05185 >20 0 0 Nickel ppm ASTM 05185 >20 0 Gopper ppm ASTM 05185 >20 2 1 Lead ppm ASTM 05185 >20 2 1 Lead ppm ASTM	Sample Number		Client Info		GFL0096558	GFL0027522	
Machine Age hrs Client Info 1174 511 Oil Age hrs Client Info 600 600 Sample Status Imit/base Current NoRMAL NORMAL CONTAMINATION method >3.0 <1.0 Water WC Method >3.0 <1.0 Glycol WC Method >0.2 NEG NEG Chromium ppm ASTM D5185m >0 18 29 Chromium ppm ASTM D5185m >20 0 0 Nickel ppm ASTM D5185m >20 0 0 Silver ppm ASTM D5185m >20 0 Auminum ppm ASTM D5185m >20 0 Silver ppm ASTM D5185m >20 1 Auminum <th></th> <th></th> <th>Client Info</th> <th></th> <th>06 Dec 2023</th> <th>19 Sep 2023</th> <th></th>			Client Info		06 Dec 2023	19 Sep 2023	
Oil Age hrs Client Info 600 600 Oil Changed Client Info Changed Not Changd Sample Status Imil/base current history1 CONTAMINATION method imil/base current history1 history2 Fuel WC Method >3.0 <1.0	•	hrs					
Oil Changed Sample Status Client Info Changed NORMAL Not Changed NORMAL	0	hrs	Client Info		600	600	
Sample Status NORMAL NORMAL NORMAL CONTAMINATION method imit/base current history1 history2 Fuel WC Method >3.0 <1.0	-					Not Changd	
Fuel WC Method >3.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG Glycol WC Method >0.2 NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 0 0 Nickel ppm ASTM D5185m >20 0 0 Silver ppm ASTM D5185m >20 2 1 Lead ppm ASTM D5185m >20 2 14 Copper ppm ASTM D5185m >20 2 14 Cadmium ppm ASTM D5185m >15 0 <1	Sample Status				NORMAL	NORMAL	
Water WC Method >0.2 NEG NEG NEG	CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol WC Method NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >90 18 29 Chromium ppm ASTM D5185m >20 0 0 Nickel ppm ASTM D5185m >2 0 0 Aluminum ppm ASTM D5185m >2 0 0 Auminum ppm ASTM D5185m >20 2 14 Lead ppm ASTM D5185m >20 0 0 Vanadium ppm ASTM D5185m 0 <1	Fuel		WC Method	>3.0	<1.0	<1.0	
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Nickel ppm ASTM D5185m >2 0 0 Titanium ppm ASTM D5185m >2 0 0 Silver ppm ASTM D5185m >2 0 0 Aluminum ppm ASTM D5185m >20 2 1 Lead ppm ASTM D5185m >330 2 14 Copper ppm ASTM D5185m >330 2 14 Tin ppm ASTM D5185m >15 0 <1	Iron	ppm	ASTM D5185m	>90	18	29	
Titanium ppm ASTM D5185m >2 0 0 Silver ppm ASTM D5185m >20 2 1 Aluminum ppm ASTM D5185m >20 2 1 Lead ppm ASTM D5185m >40 <1	Chromium	ppm	ASTM D5185m	>20	0	0	
Silver ppm ASTM D5185m >2 0 0 Aluminum ppm ASTM D5185m >20 2 1 Lead ppm ASTM D5185m >40 <1 0 Copper ppm ASTM D5185m >330 2 14 Vanadium ppm ASTM D5185m >15 0 <1 Vanadium ppm ASTM D5185m >15 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Magnessium ppm ASTM D5185m 0 <1 4 Magnessium ppm ASTM D5185m 1010 988 669 Calcluim ppm	Nickel	ppm	ASTM D5185m	>2	0	0	
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Copper ppm ASTM D5185m >330 2 14 Tin ppm ASTM D5185m >15 0 <1	Aluminum	ppm	ASTM D5185m	>20	2	1	
Tin ppm ASTM D5185m >15 0 <1 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 4 75 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 4 75 Magnesium ppm ASTM D5185m 0 <1 4 Calcium ppm ASTM D5185m 1010 988 669 Magnesium ppm ASTM D5185m 1070 1219 1278 Calcium ppm ASTM D5185m 2060 3021 3299 Sulfur ppm ASTM D5185m	Lead	ppm	ASTM D5185m	>40	<1	0	
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Cadmium ppm ASTM D5185m 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 4 75 Barium ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0 <1 4 Magnesium ppm ASTM D5185m 0 <1 4 Calcium ppm ASTM D5185m 0 <11 4 Magnesium ppm ASTM D5185m 1010 988 669 Calcium ppm ASTM D5185m 1070 1219 1278 Zinc ppm ASTM D5185m 1270 1237 873 Sulfur ppm ASTM D5185m 2060 3021 3299 Sulfur ppm ASTM D5185m 20	Tin	ppm	ASTM D5185m	>15	0	<1	
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 4 75 Barium ppm ASTM D5185m 0 0 0 Malybdenum ppm ASTM D5185m 60 59 98 Magnesium ppm ASTM D5185m 0 <1	Vanadium	ppm	ASTM D5185m		0	0	
Boron ppm ASTM D5185m 0 4 75 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 60 59 98 Manganese ppm ASTM D5185m 0 <1	Cadmium	ppm	ASTM D5185m		0	0	
Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 60 59 98 Manganese ppm ASTM D5185m 0 <1 4 Magnesium ppm ASTM D5185m 1010 988 669 Calcium ppm ASTM D5185m 1010 988 669 Calcium ppm ASTM D5185m 1070 1219 1278 Phosphorus ppm ASTM D5185m 1070 1237 873 Zinc ppm ASTM D5185m 1270 1237 873 Sulfur ppm ASTM D5185m 2060 3021 3299 Solicon ppm ASTM D5185m >25 4 14 Sodium ppm ASTM D5185m >20 1 9 INFRA-RED method l	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 60 59 98 Manganese ppm ASTM D5185m 0 <1	Boron	ppm	ASTM D5185m	0	4	75	
Manganese ppm ASTM D5185m 0 <1 4 Magnesium ppm ASTM D5185m 1010 988 669 Calcium ppm ASTM D5185m 1070 1219 1278 Phosphorus ppm ASTM D5185m 1070 1219 1278 Zinc ppm ASTM D5185m 1150 1071 702 Sulfur ppm ASTM D5185m 1270 1237 873 Sulfur ppm ASTM D5185m 2060 3021 3299 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 1 9 Sodium ppm ASTM D5185m >20 1 9 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 <td>Barium</td> <td>ppm</td> <td>ASTM D5185m</td> <td>0</td> <th>0</th> <td>0</td> <td></td>	Barium	ppm	ASTM D5185m	0	0	0	
Magnesium ppm ASTM D5185m 1010 988 669 Calcium ppm ASTM D5185m 1070 1219 1278 Phosphorus ppm ASTM D5185m 1150 1071 702 Zinc ppm ASTM D5185m 1270 1237 873 Sulfur ppm ASTM D5185m 2060 3021 3299 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 14 Sodium ppm ASTM D5185m >20 1 9 Notassium ppm ASTM D5185m >20 1 9 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 0.4 0.3 Sulfation Abs/.1mm *ASTM D741	Molybdenum	ppm	ASTM D5185m	60	59	98	
Calcium ppm ASTM D5185m 1070 1219 1278 Phosphorus ppm ASTM D5185m 1150 1071 702 Zinc ppm ASTM D5185m 1270 1237 873 Sulfur ppm ASTM D5185m 2060 3021 3299 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 14 Sodium ppm ASTM D5185m >20 1 9 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 0.4 0.3 Nitration Abs/.rm *ASTM D7624 >20 9.1 10.3 Sulfation Abs/.tmm<*ASTM D7415	Manganese	ppm	ASTM D5185m	0	<1	4	
Phosphorus ppm ASTM D5185m 1150 1071 702 Zinc ppm ASTM D5185m 1270 1237 873 Sulfur ppm ASTM D5185m 2060 3021 3299 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 14 Sodium ppm ASTM D5185m >25 4 14 Sodium ppm ASTM D5185m >20 1 9 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 0.4 0.3 Nitration Abs/cm *ASTM D7624 >20 9.1 10.3 Sulfation Abs/1mm *ASTM D7415 >30 19.9 20.5 FLUID DEGRADATION method limit	Magnesium	ppm	ASTM D5185m	1010	988	669	
Zinc ppm ASTM D5185m 1270 1237 873 Sulfur ppm ASTM D5185m 2060 3021 3299 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 14 Sodium ppm ASTM D5185m >25 4 14 Sodium ppm ASTM D5185m >20 1 9 Potassium ppm ASTM D5185m >20 1 9 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 0.4 0.3 Nitration Abs/cm *ASTM D7624 >20 9.1 10.3 Sulfation Abs/.tmm *ASTM D7415 >30 19.9 20.5 FLUID DEGRADATION method limit/base<	Calcium	ppm	ASTM D5185m	1070	1219	1278	
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CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>25414SodiumppmASTM D5185m37PotassiumppmASTM D5185m>2019INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>60.40.3NitrationAbs/cm*ASTM D7624>209.110.3SulfationAbs/.imm*ASTM D7415>3019.920.5FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.imm*ASTM D7414>2517.219.9	Zinc	ppm	ASTM D5185m	1270	1237	873	
Silicon ppm ASTM D5185m >25 4 14 Sodium ppm ASTM D5185m >20 3 7 Potassium ppm ASTM D5185m >20 1 9 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 0.4 0.3 Nitration Abs/cm *ASTM D7624 >20 9.1 10.3 Sulfation Abs/.imm *ASTM D7415 >30 19.9 20.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.imm *ASTM D7414 >25 17.2 19.9	Sulfur	ppm	ASTM D5185m	2060	3021	3299	
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Potassium ppm ASTM D5185m >20 1 9 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 0.4 0.3 Nitration Abs/cm *ASTM D7624 >20 9.1 10.3 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 20.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.2 19.9				>25			
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 0.4 0.3 Nitration Abs/cm *ASTM D7624 >20 9.1 10.3 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 20.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.2 19.9	Sodium	ppm	ASTM D5185m		3	7	
Soot % % *ASTM D7844 >6 0.4 0.3 Nitration Abs/cm *ASTM D7624 >20 9.1 10.3 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 20.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.2 19.9	Potassium	ppm	ASTM D5185m	>20	1	9	
Nitration Abs/cm *ASTM D7624 >20 9.1 10.3 Sulfation Abs/.1mm *ASTM D7615 >30 19.9 20.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.2 19.9	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 19.9 20.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.2 19.9	Soot %	%	*ASTM D7844	>6	0.4	0.3	
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.2 19.9	Nitration	Abs/cm	*ASTM D7624	>20	9.1	10.3	
Oxidation Abs/.1mm *ASTM D7414 >25 17.2 19.9	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	20.5	
	FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 9.8 8.0 6.4	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	19.9	
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.0	6.4	



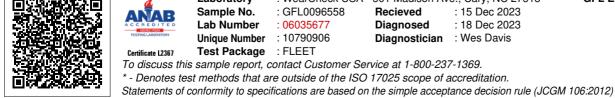
OIL ANALYSIS REPORT

VISUAL





	White Metal						
	winte word	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Precipitate	scalar	*Visual	NONE	NONE	NONE	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Dec6/23	Appearance	scalar	*Visual	NORML	NORML	NORML	
Dec	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
	Free Water	scalar	*Visual		NEG	NEG	
	FLUID PROPE		method	limit/base	current	history1	history2
	Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.4	
	GRAPHS						
	Ferrous Alloys						
	30						
	25 - chromium						
	20						
	<u>E</u> 15-						
	10						
	5 -						
	5						
	0 S	******	*******************	3			
	Sep19/23			Dec6/23			
				0			
	Non-ferrous Meta	S					
	14 Copper 1						
	12 - management lead						
	1000						
	10-						
	10 tin						
	sessesses tin						
	10 tin						
	10 tin						
	10 tin						
	10 10 10 10 10 10 10 10 10 10						
	10 10 10 10 10 10 10 10 10 10			e6i/23			
	10 10 8 6 4 2 0 E2/61 6 8 5 5 5 5 5 5 5 5 5 5 5 5 5			Dech/23			
	Viscosity @ 100°C			Dec6/23	Base Numbe	r	
	Viscosity @ 100°C			Dec6623	Base Numbe	r	
	Viscosity @ 100°C			10.0	Base Numbe	r	
	10 10 10 10 10 10 10 10 10 10			10.0	Base Numbe	r	
	10 10 10 10 10 10 10 10 10 10			10.0	Base Numbe	r	
	10 10 10 10 10 10 10 10 10 10			10.0	Base Numbe	r	
	10 10 10 10 10 10 10 10 10 10			10.0	Base Numbe	r	
	Uiscosity @ 100°C			10.0 (0,HO) 8.0 (0,HO) 100 6.0 Mump age 4.0	Base Numbe	r	
	10 10 10 10 10 10 10 10 10 10			10.0 8.0 0,0 HOX 0,0 HOX 0,0 HOX 0,0 HOX 0,0 HOX	Base Numbe	r	
	10 10 10 10 10 10 10 10 10 10			10.0 (0) 8.0 HOY BC 5.0 D 4.0 BC 10 HOY BC 2.0 0.0	Base	r	
	Uiscosity @ 100°C			10.0 (0) 8.0 HOY BC 5.0 D 4.0 BC 10 HOY BC 2.0 0.0	Base	r	
	Uiscosity @ 100°C			10.0 (PHO) 8.0 (DHO) 6.0 4.0 2.0	Base Numbe	r	
	Uiscosity @ 100°C			10.0 (0)HO) 8.0 (0)HO)	Base EZ/61 GeS		
Laboratory	Uiscosity @ 100°C	501 Madis		10.0 (PHOX But But But But But But But But But But	Base EZ/61 GeS	r Environmental	
Laboratory Sample No.	Uiscosity @ 100°C	501 Madis Recieved	d :15 l	10.0 (PHOX Du b (PHOX Du (PHOX Du b (PHOX Du b (PHOX Du (PHOX Du Du (PHOX Du Du (PHOX Du (PHOX	Base EZ/61 GeS		888 Baldw
Laboratory Sample No. Lab Number	Viscosity @ 100°C	501 Madis Recieved Diagnose	d :15 l ed :18 l	ry, NC 27513 Dec 2023 Dec 2023	Base EZ/61 GeS		- 465 - Pontia 888 Baldw Pontiac, I
Laboratory Sample No.	Viscosity @ 100°C	501 Madis Recieved	d :15 l ed :18 l	10.0 (PHOX Du b (PHOX Du (PHOX Du b (PHOX Du b (PHOX Du (PHOX Du Du (PHOX Du (PHOX DU	Base EZ/61 GeS	Environmental	- 465 - Pontia 888 Baldw Pontiac, I US 4834 Ricky Matthev



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