

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id **4580M** Component

Fluid

Diesel Engine

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

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

Valve wear is indicated. All other component wear rates are normal.

Contamination

Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

Fluid Condition

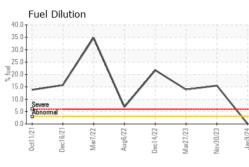
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

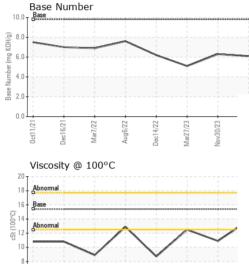
Sample Number Client Info GFL0108834 GFL0101500 GFL070383 Sample Date Client Info 09 Jan 2024 30 Nov 2023 27 Mar 2023 Machine Age hrs Client Info 15179 14887 12807 Oil Age Client Info 600 12807 12008 Oil Changed Client Info Changed Changed Changed Sample Status Imit base current history! Nictory! Water WC Method >0.2 NEG NEG NEG Water WC Method >0.2 NEG NEG NEG Venchum ppm ASTM 05165m >90 21 38 56 Chromium ppm ASTM 05165m >20 <1 2 4 Nickel ppm ASTM 05165m >20 0 0 0 Silver ppm ASTM 05165m >20 1 2 4 Lead ppm ASTM 05165m >20	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Date Client Info 09 Jan 2024 30 Nov 2023 27 Mar 2023 Machine Age hrs Client Info 15179 14887 12807 Oil Age hrs Client Info 600 12807 12008 Oil Changed Client Info Changed NEG NEG <td></td> <td></td> <td></td> <td></td> <th></th> <td></td> <td></td>							
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Oil Age Inrs Client Info 600 12807 12008 Oil Changed Client Info Changed Changed Changed Sample Status Imit Date NORMAL SEVERE SEVERE CONTAMINATION method Imit Date current history1 history2 Water WC Method >0.2 NEG NEG NEG Glycol WC Method >0.2 NEG NEG NEG Water WC Method >0.2 NEG NEG NEG Wickel ppm ASTM D5185n >20 <1		bre					
Oil Changed Sample Status Client Info Changed NORMAL Changed SEVERE Changed SEVERE Changed SEVERE CONTAMINATION method imit/base current history1 history2 Water WC Method >0.2 NEG NEG NEG Water WC Method >0.2 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185n >20 <1	0						
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Water WC Method >0.2 NEG NEG NEG NEG Glycol WC Method Imit/base current history1 history2 Iron ppm ASTM D5185m >90 21 38 56 Chromium ppm ASTM D5185m >20 <1			and the set	L'and the state of	-		
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WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >90 21 38 56 Chromium ppm ASTM D5185m >20 <1				>0.2			
Iron ppm ASTM D5185m >90 21 38 56 Chromium ppm ASTM D5185m >20 <1	Glycol		WC Method		NEG	NEG	NEG
Dromium ppm ASTM D5185m >20 <1 2 4 Nickel ppm ASTM D5185m >2 6 1 0 Titanium ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >20 1 2 4 Lead ppm ASTM D5185m >20 1 2 4 Copper ppm ASTM D5185m >330 3 2 4 Vanadium ppm ASTM D5185m 0 0 0 <1	WEAR META	LS	method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >2 6 1 0 Titanium ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Auminum ppm ASTM D5185m >20 1 2 4 Lead ppm ASTM D5185m >20 1 21 4 Copper ppm ASTM D5185m >40 2 -1 -1 Copper ppm ASTM D5185m >15 <1	Iron	ppm			21		
Titanium ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >20 1 2 4 Lead ppm ASTM D5185m >40 2 <1	Chromium	ppm	ASTM D5185m	>20	<1	2	4
Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >20 1 2 4 Lead ppm ASTM D5185m >40 2 <1 <1 Copper ppm ASTM D5185m >330 3 2 4 Vanadium ppm ASTM D5185m >15 <1 <1 <1 <1 Vanadium ppm ASTM D5185m >15 <1 <1 <1 <1 Vanadium ppm ASTM D5185m 0 0 0 <1 <1 Cadmium ppm ASTM D5185m 0 0 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	Nickel	ppm	ASTM D5185m	>2	6	1	0
Aluminum ppm ASTM D5185m >20 1 2 4 Lead ppm ASTM D5185m >40 2 <1	Titanium	ppm	ASTM D5185m	>2	0	0	0
Lead ppm ASTM D5185m >40 2 <1 <1 Copper ppm ASTM D5185m >330 3 2 4 Tin ppm ASTM D5185m >15 <1	Silver	ppm	ASTM D5185m	>2	0	0	0
Copper ppm ASTM D5185m >330 3 2 4 Tin ppm ASTM D5185m >15 <1	Aluminum	ppm	ASTM D5185m	>20	1	2	4
Tin ppm ASTM D5185m >15 <1 <1 <1 Vanadium ppm ASTM D5185m 0 0 0 <1 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 2 0 Barium ppm ASTM D5185m 0 0 2 0 Molybdenum ppm ASTM D5185m 0 0 0 1 48 Magnesium ppm ASTM D5185m 0.10 936 695 745 Calcium ppm ASTM D5185m 1010 936 695 745 Calcium ppm ASTM D5185m 1070 1033 838 852 Phosphorus ppm ASTM D5185m 2060 2273 3429 2170 CONTAMINANTS method limit/base <t< td=""><td>Lead</td><td>ppm</td><td>ASTM D5185m</td><td>>40</td><th>2</th><td><1</td><td><1</td></t<>	Lead	ppm	ASTM D5185m	>40	2	<1	<1
Tin ppm ASTM D5185m >15 <1 <1 <1 <1 Vanadium ppm ASTM D5185m 0 0 0 <1	Copper	ppm	ASTM D5185m	>330	3	2	4
Vanadium ppm ASTM D5185m 0 0 <1 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 <1	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 <1	Vanadium		ASTM D5185m		0	0	<1
Boron ppm ASTM D5185m 0 0 <1 <1 Barium ppm ASTM D5185m 0 0 2 0 Molybdenum ppm ASTM D5185m 60 56 47 48 Manganese ppm ASTM D5185m 0 0 0 1 Magnesium ppm ASTM D5185m 1010 936 695 745 Calcium ppm ASTM D5185m 1010 936 695 745 Calcium ppm ASTM D5185m 1070 1033 838 852 Phosphorus ppm ASTM D5185m 1270 1265 965 996 Sulfur ppm ASTM D5185m 2060 2273 3429 2170 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 <1	Cadmium		ASTM D5185m		0	0	0
Barium ppm ASTM D5185m 0 0 0 2 0 Molybdenum ppm ASTM D5185m 60 56 47 48 Manganese ppm ASTM D5185m 0 0 0 1 Magnesium ppm ASTM D5185m 1010 936 695 745 Calcium ppm ASTM D5185m 1010 936 695 745 Calcium ppm ASTM D5185m 1070 1033 838 852 Phosphorus ppm ASTM D5185m 1070 1033 838 852 Sulfur ppm ASTM D5185m 1270 1265 965 996 Sulfur ppm ASTM D5185m 2060 2273 3429 2170 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 60 56 47 48 Manganese ppm ASTM D5185m 0 0 0 1 Magnesium ppm ASTM D5185m 1010 936 695 745 Calcium ppm ASTM D5185m 1070 1033 838 852 Phosphorus ppm ASTM D5185m 1070 1033 838 852 Phosphorus ppm ASTM D5185m 1150 899 751 771 Zinc ppm ASTM D5185m 1270 1265 965 996 Sulfur ppm ASTM D5185m 2060 2273 3429 2170 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 <1	Boron	ppm	ASTM D5185m	0	0	<1	<1
Manganese ppm ASTM D5185m 0 0 0 0 1 Magnesium ppm ASTM D5185m 1010 936 695 745 Calcium ppm ASTM D5185m 1010 936 695 745 Calcium ppm ASTM D5185m 1070 1033 838 852 Phosphorus ppm ASTM D5185m 1070 1033 838 852 Phosphorus ppm ASTM D5185m 1270 1265 965 996 Sulfur ppm ASTM D5185m 2060 2273 3429 2170 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 <1	Barium	ppm	ASTM D5185m	0	0	2	0
Manganese ppm ASTM D5185m 0 0 0 0 1 Magnesium ppm ASTM D5185m 1010 936 695 745 Calcium ppm ASTM D5185m 1070 1033 838 852 Phosphorus ppm ASTM D5185m 1070 1033 838 852 Phosphorus ppm ASTM D5185m 1070 1033 838 852 Phosphorus ppm ASTM D5185m 1270 1265 965 996 Sulfur ppm ASTM D5185m 2060 2273 3429 2170 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 <1	Molybdenum	ppm	ASTM D5185m	60	56	47	48
Magnesium ppm ASTM D5185m 1010 936 695 745 Calcium ppm ASTM D5185m 1070 1033 838 852 Phosphorus ppm ASTM D5185m 1150 899 751 771 Zinc ppm ASTM D5185m 1270 1265 965 996 Sulfur ppm ASTM D5185m 2060 2273 3429 2170 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 2 10 8 Sodium ppm ASTM D5185m >20 <1	Manganese	ppm	ASTM D5185m	0	0	0	1
Calcium ppm ASTM D5185m 1070 1033 838 852 Phosphorus ppm ASTM D5185m 1150 899 751 771 Zinc ppm ASTM D5185m 1270 1265 965 996 Sulfur ppm ASTM D5185m 2060 2273 3429 2170 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 2 10 8 Sodium ppm ASTM D5185m >20 <1	Magnesium		ASTM D5185m	1010	936	695	745
Phosphorus ppm ASTM D5185m 1150 899 751 771 Zinc ppm ASTM D5185m 1270 1265 965 996 Sulfur ppm ASTM D5185m 2060 2273 3429 2170 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 25 2 10 8 Sodium ppm ASTM D5185m >25 2 10 8 Potassium ppm ASTM D5185m >20 <1	Calcium		ASTM D5185m	1070	1033	838	852
Zinc ppm ASTM D5185m 1270 1265 965 996 Sulfur ppm ASTM D5185m 2060 2273 3429 2170 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 2 10 8 Sodium ppm ASTM D5185m >25 2 10 8 Sodium ppm ASTM D5185m >20 <1							
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Sodium ppm ASTM D5185m 4 7 8 Potassium ppm ASTM D5185m<>20 <1	CONTAMINA	NTS	method	limit/base	current	history1	history2
Sodium ppm ASTM D5185m 4 7 8 Potassium ppm ASTM D5185m<>20 <1	Silicon	ppm	ASTM D5185m	>25	2	10	8
Fuel % ASTM D3524 >3.0 0.0 15.5 13.9 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 1.2 0.6 1.3 Nitration Abs/cm *ASTM D7624 >20 9.5 12.2 16.4 Sulfation Abs/.1mm *ASTM D7415 >30 21.9 21.7 27.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.8 21.6 30.2	Sodium		ASTM D5185m		4	7	8
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >6 1.2 0.6 1.3 Nitration Abs/cm *ASTM D7624 >20 9.5 12.2 16.4 Sulfation Abs/.tmm *ASTM D7415 >30 21.9 21.7 27.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.tmm *ASTM D7414 >25 17.8 21.6 30.2	Potassium	ppm	ASTM D5185m	>20	<1	2	0
Soot % % *ASTM D7844 >6 1.2 0.6 1.3 Nitration Abs/cm *ASTM D7624 >20 9.5 12.2 16.4 Sulfation Abs/.1mm *ASTM D7415 >30 21.9 21.7 27.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.8 21.6 30.2	Fuel	%	ASTM D3524	>3.0	0.0	1 5.5	13.9
Nitration Abs/cm *ASTM D7624 >20 9.5 12.2 16.4 Sulfation Abs/.1mm *ASTM D7415 >30 21.9 21.7 27.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.8 21.6 30.2	INFRA-RED		method	limit/base	current	history1	history2
Nitration Abs/cm *ASTM D7624 >20 9.5 12.2 16.4 Sulfation Abs/.1mm *ASTM D7415 >30 21.9 21.7 27.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.8 21.6 30.2	Soot %	%	*ASTM D7844	>6	1.2	0.6	1.3
Sulfation Abs/.1mm *ASTM D7415 >30 21.9 21.7 27.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.8 21.6 30.2							
Oxidation Abs/.1mm *ASTM D7414 >25 17.8 21.6 30.2	Sulfation						
	FLUID DEGRA		method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.8	21.6	30.2
	Base Number (BN)		ASTM D2896	9.8	6.1	6.3	5.1



6.

OIL ANALYSIS REPORT





Mar7/22

Dec16/21

			VISUAL		method	limit/base		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
. 22 -	/23	123		scalar	*Visual	NORML	NORML	NORML	NORML
Dec14/22	Mar27/23	Nov30/23 Jan9/24	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	ERTIES	method	limit/base	current	history1	history2
	\checkmark		Visc @ 100°C	cSt	ASTM D445	15.4	13.8	▲ 10.9	12.5
			GRAPHS						
			Ferrous Alloys						
			60 T		1				
Dec14/22	7/23	0/23	50 - chromium		\wedge				
Decl	Mar27/23	Nav30/23	nickel						
			40						
			E 30	$\langle \rangle$					
			20-						
			10-						
						and a state of the			
	1		2 21 0	2 2	C. C.				
\setminus /		~	0ct11/21 Dec16/21 Mar7/22	Aug6/22 Dec14/22	Mar27/23 Nov30/23	Jan 9/24			
¥			_		Ma	7			
2			Non-ferrous Meta	als					
Dec14/22	Mar27/23	Nav30/23	10 copper						
Dec	Mar	Nov							
			8 -						
			8 - English tin						
			6 -						
			6 -		~				
					\wedge	/,			
			6 -		\wedge	/			
					\sim				
				96/22	1220 200	1924			
				Aug6/22 + D	Maz2123 ESU23	Jan9,24			
			Viscosity @ 100°		Mar2123		Base Numbe	۶r	
			Viscosity @ 100°		Maz212a		Base Numbe	2 1	
			Viscosity @ 100°		EZ/JCZWEW	10.0		21	
			Viscosity @ 100°		EZ/ICZINEWN	10.0		9 r	
			Viscosity @ 100°		CZ/ICZIEW	10.0		er	
			Viscosity @ 100°		CZ172A	10.0	Base	217	
			Viscosity @ 100°			10.0	Base	217	
			Viscosity @ 100° bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bonomal bon		CZ/CZRM	0.0 0.8 0.0 KOH(0) pec, um0	Base	217	
			Viscosity @ 100°		Mar2723	10.0 (0)HOX Buu) Jaquiny Paquiny 888 2.0	Base	2F	
			Viscosity @ 100°	c	<u> </u>	10.0 (b)(HOX HOX Bul) Japum Hum Hum Hum Hum Hum Hum Hum Hum Hum H	Base		
			Viscosity @ 100°	c	<u> </u>	10.0 (b)(HOX HOX Bul) Japum Hum Hum Hum Hum Hum Hum Hum Hum Hum H	Base		(2)723
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			Viscosity @ 100°	Aug6/22 Dec14/22	Mar27/23	10.0 (0)HOX BWJ 50 BWJ		Mar/122 Aug6/22 Dec14/22	2 2
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* - 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)

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