

OIL ANALYSIS REPORT

Sample Rating Trend



227061-632106

Component Diesel Engine

Fluid 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.

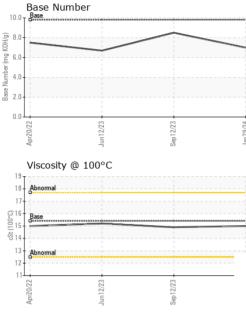
Fluid Condition

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

SAMPLE INFORMATION method imit/base current history1 history2 Sample Number Client Info 29 Jan 2024 12 Sep 2023 12 Jun 2023 Machine Age mis Client Info 660 10000 600 Oil Age mis Client Info 600 10000 600 Oil Anged Client Info 600 10000 600 Changed Sample Status Client Info 600 10000 600 Changed Sample Status Client Info 600 1000 <1.0 <1.0 VEX WC Method >5 <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method Sol 1 1 1 1 Nickel ppm ASTM 05185 >20 1 1 1 1 Nickel ppm ASTM 05185 >30 3 6 1 0 1			Apr202	2 Jun2023	Sep2023 J:	an2024	
Sample Date Client Info 29 Jan 2024 12 Sep 2023 12 Jun 2023 Machine Age mis Client Info 85515 77641 75510 Oil Age mis Client Info 600 10000 600 Sample Status Client Info Changed Changed Changed Sample Status Client Info Changed NORMAL NORMAL NORMAL VCONTAMINATION method Imit/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 >0 34 26 43 Chromium ppm ASTM D5185m >40 1 1 1 Nickel ppm ASTM D5185m >40 12 9 1 Chromium ppm ASTM D5185m >41 0 0 1 Silver ppm AS	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
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Oil Age mis Client Info 600 10000 600 Oil Changed Client Info Changed Change	Sample Date		Client Info		29 Jan 2024	12 Sep 2023	12 Jun 2023
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Sample Status NORMAL NORMAL NORMAL NORMAL NORMAL CONTAMINATION method imit/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 NEG WEAR METALS method imit/base current history1 history2 Iron ppm ASTM D5165m >100 34 26 43 Chromium ppm ASTM D5165m >4 <1 <1 0 Silver ppm ASTM D5165m >3 <1 0 0 <11 6 8 Lead ppm ASTM D5185m >30 3 3 6 11 1 1 Vanadium ppm ASTM D5185m >30 3 3 6 1 Copper ppm	Oil Age	mls	Client Info		600	10000	600
CONTAMINATION method limit/base current history1 history2 Fuel WC Method >0.2 NEG NEG NEG NEG Glycol WC Method >0.2 NEG NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5168m >100 34 26 43 Chromium ppm ASTM D5168m >20 1 1 1 1 Nickel ppm ASTM D5168m >20 1 1 1 1 Nickel ppm ASTM D5168m >20 11 6 8 8 Lead ppm ASTM D5168m >20 11 6 8 1 Copper ppm ASTM D5168m >30 3 3 6 1 1 1 1 1 1 1 1 1 1 1 1 1<	Oil Changed		Client Info		Changed	Changed	Changed
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Nickel ppm ASTM D5185m >4 <1	Iron	ppm	ASTM D5185m	>100	34	26	43
Titanium ppm ASTM D5185m >3 <1	Chromium	ppm	ASTM D5185m	>20	1	1	1
Titanium ppm ASTM D5185m >3 <1	Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Silver ppm ASTM D5185m >3 <1	Titanium				0	0	<1
Lead ppm ASTM D5185m >40 12 9 17 Copper ppm ASTM D5185m >330 3 3 6 Tin ppm ASTM D5185m >15 1 1 1 Vanadium ppm ASTM D5185m 0 0 <1 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method imit/base current history1 history2 Boron ppm ASTM D5185m 0 12 23 7 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 2 1 2 Magnaese ppm ASTM D5185m 1010 580 632 561 Calcium ppm ASTM D5185m 1070 1515 1652 1732 Phosphorus ppm ASTM D5185m 1200 1001 1	Silver	ppm	ASTM D5185m	>3	<1	0	0
Lead ppm ASTM D5185m >40 12 9 17 Copper ppm ASTM D5185m >330 3 3 6 Tin ppm ASTM D5185m >15 1 1 1 Vanadium ppm ASTM D5185m 0 0 <1 Cadmium ppm ASTM D5185m 0 12 23 7 Boron ppm ASTM D5185m 0 12 23 7 Barium ppm ASTM D5185m 0 12 23 7 Barium ppm ASTM D5185m 0 2 1 2 Magnanese ppm ASTM D5185m 0 2 1 2 Magnaesum ppm ASTM D5185m 1010 580 632 561 Calcium ppm ASTM D5185m 1070 1515 1652 1732 Phosphorus ppm ASTM D5185m 1270 1001 10	Aluminum		ASTM D5185m	>20	11	6	8
Copper ppm ASTM D5185m >330 3 3 6 Tin ppm ASTM D5185m >15 1 1 1 Vanadium ppm ASTM D5185m >15 1 1 1 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 12 23 7 Barium ppm ASTM D5185m 0 0 0 0 0 Molybdenum ppm ASTM D5185m 0 2 1 2 2 Magnesium ppm ASTM D5185m 0 2 1 2 2 Magnesium ppm ASTM D5185m 1010 580 632 561 Calcium ppm ASTM D5185m 1270 1001 1078 930 Sulfur ppm ASTM D5185m	Lead		ASTM D5185m	>40	12	9	17
Tin ppm ASTM D5185m >15 1 1 1 Vanadium ppm ASTM D5185m 0 0 <10	Copper		ASTM D5185m	>330	3	3	6
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Boron ppm ASTM D5185m 0 12 23 7 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 60 51 54 54 Manganese ppm ASTM D5185m 0 2 1 2 Magnesium ppm ASTM D5185m 1010 580 632 561 Calcium ppm ASTM D5185m 1070 1515 1652 1732 Phosphorus ppm ASTM D5185m 1070 1515 1652 1732 Phosphorus ppm ASTM D5185m 1270 1001 1078 930 Sulfur ppm ASTM D5185m 2060 2432 3311 2812 CONTAMINANTS method imit/base current history1 history2 Silicon ppm ASTM D5185m >20 6 11 8 INFERA-RED method imit/base			ASTM D5185m				
Barium ppm ASTM D5185m 0 0 0 0 0 Molybdenum ppm ASTM D5185m 60 51 54 54 Manganese ppm ASTM D5185m 0 2 1 2 Magnesium ppm ASTM D5185m 1010 580 632 561 Calcium ppm ASTM D5185m 1010 580 632 561 Calcium ppm ASTM D5185m 1070 1515 1652 1732 Phosphorus ppm ASTM D5185m 1070 1011 1078 930 Sulfur ppm ASTM D5185m 1270 1001 1078 930 Sulfur ppm ASTM D5185m 2060 2432 3311 2812 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 6 11 8 INFRA-RED method <	ADDITIVES		method	limit/base	current	history1	history2
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Manganese ppm ASTM D5185m 0 2 1 2 Magnesium ppm ASTM D5185m 1010 580 632 561 Calcium ppm ASTM D5185m 1070 1515 1652 1732 Phosphorus ppm ASTM D5185m 1070 1515 1652 1732 Phosphorus ppm ASTM D5185m 1150 781 915 704 Zinc ppm ASTM D5185m 1270 1001 1078 930 Sulfur ppm ASTM D5185m 2060 2432 3311 2812 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 7 8 8 Sodium ppm ASTM D5185m >20 6 11 8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844	Barium	ppm	ASTM D5185m	0	0	0	0
Magnesium ppm ASTM D5185m 1010 580 632 561 Calcium ppm ASTM D5185m 1070 1515 1652 1732 Phosphorus ppm ASTM D5185m 1150 781 915 704 Zinc ppm ASTM D5185m 1270 1001 1078 930 Sulfur ppm ASTM D5185m 2060 2432 3311 2812 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 7 8 8 Sodium ppm ASTM D5185m >20 6 11 8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.8 1 2.3 Nitration Abs/(mm *ASTM D7624 >20 16.0 11.7 17.4 Sulfation Abs/(1mm *ASTM D741	Molybdenum	ppm	ASTM D5185m	60	51	54	54
Calcium ppm ASTM D5185m 1070 1515 1652 1732 Phosphorus ppm ASTM D5185m 1150 781 915 704 Zinc ppm ASTM D5185m 1270 1001 1078 930 Sulfur ppm ASTM D5185m 2060 2432 3311 2812 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 7 8 8 Sodium ppm ASTM D5185m >20 6 11 8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D5185m >20 6 11 8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.8 1 2.3 Nitration Abs/.m *ASTM D7415 >30 </th <th>Manganese</th> <th>ppm</th> <th>ASTM D5185m</th> <th>0</th> <th>2</th> <th>1</th> <th>2</th>	Manganese	ppm	ASTM D5185m	0	2	1	2
Phosphorus ppm ASTM D5185m 1150 781 915 704 Zinc ppm ASTM D5185m 1270 1001 1078 930 Sulfur ppm ASTM D5185m 2060 2432 3311 2812 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 7 8 8 Sodium ppm ASTM D5185m >25 7 8 8 Sodium ppm ASTM D5185m >20 6 11 8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.8 1 2.3 Nitration Abs/cm *ASTM D7624 >20 16.0 11.7 17.4 Sulfation Abs/.1mm *ASTM D7415 >30 26.8 21.8 29.4 FLUID DEGRADATION method limit/bas	Magnesium	ppm	ASTM D5185m	1010	580	632	561
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SulfurppmASTM D5185m2060243233112812CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>25788SodiumppmASTM D5185m206118PotassiumppmASTM D5185m>206118INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>31.812.3NitrationAbs/cm*ASTM D7624>2016.011.717.4SulfationAbs/lm*ASTM D7415>3026.821.829.4CxidationAbs/lm*ASTM D7414>2526.819.028.5			ASTM D5185m	1270	1001	1078	930
Silicon ppm ASTM D5185m >25 7 8 8 Sodium ppm ASTM D5185m 13 5 6 Potassium ppm ASTM D5185m >20 6 11 8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.8 1 2.3 Nitration Abs/cm *ASTM D7624 >20 16.0 11.7 17.4 Sulfation Abs/.tmm *ASTM D7615 >30 26.8 21.8 29.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.tmm *ASTM D7614 >25 26.8 19.0 28.5	Sulfur		ASTM D5185m	2060	2432	3311	2812
Sodium ppm ASTM D5185m 13 5 6 Potassium ppm ASTM D5185m >20 6 11 8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.8 1 2.3 Nitration Abs/cm *ASTM D7624 >20 16.0 11.7 17.4 Sulfation Abs/.1mm *ASTM D7415 >30 26.8 21.8 29.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 26.8 19.0 28.5	CONTAMINAN	TS	method	limit/base	current	history1	history2
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INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.8 1 2.3 Nitration Abs/cm *ASTM D7624 >20 16.0 11.7 17.4 Sulfation Abs/.tmm *ASTM D7415 >30 26.8 21.8 29.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.tmm *ASTM D7414 >25 26.8 19.0 28.5	Sodium	ppm	ASTM D5185m		13	5	6
Soot % % *ASTM D7844 >3 1.8 1 2.3 Nitration Abs/cm *ASTM D7624 >20 16.0 11.7 17.4 Sulfation Abs/.1mm *ASTM D7415 >30 26.8 21.8 29.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 26.8 19.0 28.5	Potassium	ppm	ASTM D5185m	>20	6	11	8
Nitration Abs/cm *ASTM D7624 >20 16.0 11.7 17.4 Sulfation Abs/.1mm *ASTM D7415 >30 26.8 21.8 29.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 26.8 19.0 28.5	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 26.8 21.8 29.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 26.8 19.0 28.5	Soot %	%	*ASTM D7844	>3	1.8	1	2.3
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 26.8 19.0 28.5	Nitration	Abs/cm	*ASTM D7624	>20	16.0	11.7	17.4
Oxidation Abs/.1mm *ASTM D7414 >25 26.8 19.0 28.5	Sulfation	Abs/.1mm	*ASTM D7415	>30	26.8	21.8	29.4
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 9.8 7.0 8.5 6.7	Oxidation	Abs/.1mm	*ASTM D7414	>25	26.8	19.0	28.5
		mg KOH/g					



OIL ANALYSIS REPORT



	VISUAL		method	limit/base	current	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
Jan 29/24	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Jan	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
	Visc @ 100°C	cSt	ASTM D445	15.4	15.0	14.9	15.2
	GRAPHS						
	Ferrous Alloys						
	40- 35- iron iron hickel						
	35 nickel						
1							
	25- 20-						
	15-						
	10						
	Apr20/22 . Jun12/23 .		Sep12/23 .	Jan 29/24 ·			
	Apr2 Jun1		Sep 1	Jan 2			
	Non-ferrous Meta	ls					
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	4						
	0						
	Apr20/22 Jun 12/23		Sep 12/23	Jan 29/24			
	,	-	Sei	Jar			
	Viscosity @ 100°C			10	Base Number	r 	
	18 - Abnormal						
	17-			(B/H	0		
10	Base			бу В 6.	0	-	
	Base 15 3 14			ber (m			
c	ឋ ₁₄			.0 Base Number (mg KOH(g)	0		
	13 - Abnormal			ase 2.	0		
	12-						
	11		23			23+	24
	Apr20/22 Jun12/23		Sep 12/23	Jan 29/24	Apr20/22	Jun 12/23 Sep 12/23	Jan 29/24
Laboratoria							
Laboratory Sample No.	: WearCheck USA - : GFL0096005	Recieved		ry, NC 2751 Jan 2024	J GFL E	ivironmental - 88 1378 Sou	th Volusia Ave
Lab Number	: 06074441	Diagnos		Feb 2024			Drange City, FL
Unique Number	: 10856532	Diagnost		athan Heste			US 32763
Test Package	: FLEET	•				Contact: JEFF C	
	contact Customer Serv				JCC	OPERSMITH@	GFLENV.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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

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F:

T: (386)503-8468