

PROBLEM SUMMARY

Sample Rating Trend

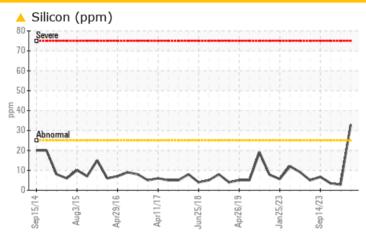


Machine Id **10543** Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (36 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

The oil 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. Note that there appears to be a discrepancy in the total time on this component, when compared to the historical data.

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	NORMAL	NORMAL	
Silicon	ppm	ASTM D5185m	>25	4 33	3	4	

Customer Id: GFL073 Sample No.: GFL0097179 Lab Number: 06035609 Test Package: FLEET To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Alert			?	Note that there appears to be a discrepancy in the total time on this component, when compared to the historical data.

HISTORICAL DIAGNOSIS

27 Oct 2023 Diag: Wes Davis





Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



13 Oct 2023 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

View report

14 Sep 2023 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id 10543 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (36 GAL)

DIAGNOSIS

Recommendation

The oil 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. Note that there appears to be a discrepancy in the total time on this component, when compared to the historical data.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal.

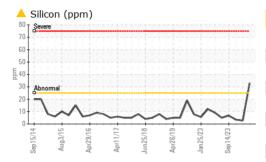
Fluid Condition

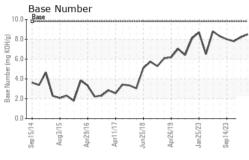
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

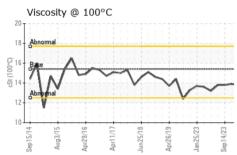
SAMPLE INFORMATION method limit/base current history1 GFL0097179 GFL0097216 GFL0097196 GFL0097216 GFL0097196 GFL0097196 GFL0097196 GFL0097196 GFL0097216 GFL0097196 GFL0097216 GFL	GAL) p2014 Aug2015 Apg2015 Apg2017 Jun2018 Apg2018 Jun2023 Sup2023						
Sample Date Client Info 11 Dec 2023 27 Oct 2023 13 Oct 2023 Machine Age hrs Client Info 1501 19470 19420 Oil Age hrs Client Info 0 0 0 Oil Oall Changed Client Info Changed Not Changed No Changed No Changed Sample Status Client Info Changed Not Changed No Changed No Changed CONTAMINATION 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 >0.2 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05185m >10 < 1 2 14 Chromium ppm ASTM 05185m >10 < 1 < 1 < 1	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 1501 19470 19420 Oil Age hrs Client Info 0 0 0 0 Oil Changed Client Info Changed Not Changed Changed Not Changed Sample Status Image: Control of Changed Not Changed Not Changed Not Changed Not Changed WEAR WC Method 5 <1.0 <1.0 <1.0 <1.0 WEAR METALS we find Imitibase current history1 history2 WEAR METALS method limit/base current history1 history2 WEAR METALS method li	Sample Number		Client Info		GFL0097179	GFL0097216	GFL0097196
Oil Age hrs Client Info Changed ABNORMAL NORMAL Not Changed North Changed North Changed North Changed NormAL NormAL Changed NormAL	Sample Date		Client Info		11 Dec 2023	27 Oct 2023	13 Oct 2023
Oil Changed Sample Status Client Info Changed ABNORMAL ADNORMAL NORMAL Changed NormAL NORMAL NORMAL Changed ABNORMAL NORMAL NORMAL Changed NormAL NORMAL NORMAL Changed ABNORMAL NORMAL NORMAL Changed NormAL NORMAL NORMAL Changed ABNORMAL NORMAL NORMAL Changed NormAL NORMAL More Material NormAL NormAL More Material NormAL NormAL More Material NormAL All Down ALD NorMAL All Down	Machine Age	hrs	Client Info		1501	19470	19420
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CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5 <1.0	Oil Changed		Client Info		Changed	Not Changd	Changed
Fuel	Sample Status				ABNORMAL	NORMAL	NORMAL
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Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 11 2 14 Chromium ppm ASTM D5185m >20 <1	Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 11 2 14 Chromium ppm ASTM D5185m >20 <1	Water		WC Method	>0.2	NEG	NEG	NEG
Iron	Glycol		WC Method		NEG	NEG	NEG
Chromium ppm ASTM D5185m >20 <1 0 <1 Nickel ppm ASTM D5185m >4 <1	WEAR METAL	S	method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >4 <1 0 <1 Titanium ppm ASTM D5185m < 1	Iron	ppm	ASTM D5185m	>100	11	2	14
Titanium ppm ASTM D5185m <1 0 <1 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >20 2 1 3 Lead ppm ASTM D5185m >40 <1	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >20 2 1 3 Lead ppm ASTM D5185m >40 <1 0 <1 Copper ppm ASTM D5185m >15 <1 0 <1 Vanadium ppm ASTM D5185m 0 0 0 <1 Cadmium ppm ASTM D5185m 0 0 <1 0 <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 5 17 3 Barium ppm ASTM D5185m 0 12 0 10 Molydenum ppm ASTM D5185m 0 12 0 10 Magnesium ppm ASTM D5185m 1010 876 644 836 Calcium ppm ASTM D5185m 1070 953 </td <td>Nickel</td> <td>ppm</td> <td>ASTM D5185m</td> <td>>4</td> <td><1</td> <td>0</td> <td><1</td>	Nickel	ppm	ASTM D5185m	>4	<1	0	<1
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Tin ppm ASTM D5185m >15 <1 0 <1 Vanadium ppm ASTM D5185m 0 0 <1 Cadmium ppm ASTM D5185m <1 0 <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 5 17 3 Barium ppm ASTM D5185m 0 12 0 10 Molybdenum ppm ASTM D5185m 0 56 56 56 57 Manganese ppm ASTM D5185m 0 <1	Lead	ppm	ASTM D5185m	>40	<1	0	<1
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Barium ppm ASTM D5185m 0 12 0 10 Molybdenum ppm ASTM D5185m 60 56 56 57 Manganese ppm ASTM D5185m 0 <1 0 <1 Magnesium ppm ASTM D5185m 1010 876 644 836 Calcium ppm ASTM D5185m 1070 953 1177 944 Phosphorus ppm ASTM D5185m 1150 917 1017 936 Zinc ppm ASTM D5185m 1270 1131 1088 1094 Sulfur ppm ASTM D5185m 2060 3236 2930 2686 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 33 3 4 Sodium ppm ASTM D5185m 8 5 18 Potassium ppm ASTM D5185m 20 <td>ADDITIVES</td> <td></td> <td>method</td> <td>limit/base</td> <td>current</td> <td>history1</td> <td>history2</td>	ADDITIVES		method	limit/base	current	history1	history2
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Sodium ppm ASTM D5185m 8 5 18 Potassium ppm ASTM D5185m >20 3 3 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.2 0.1 0.2 Nitration Abs/cm *ASTM D7624 >20 5.7 5.2 6.3 Sulfation Abs/.1mm *ASTM D7415 >30 17.3 16.7 17.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.0 12.3 13.3		ITS	method	limit/base	current	history1	
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Soot % % *ASTM D7844 >3 0.2 0.1 0.2 Nitration Abs/cm *ASTM D7624 >20 5.7 5.2 6.3 Sulfation Abs/.1mm *ASTM D7415 >30 17.3 16.7 17.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.0 12.3 13.3	Potassium	ppm	ASTM D5185m	>20	3	3	1
Nitration Abs/cm *ASTM D7624 >20 5.7 5.2 6.3 Sulfation Abs/.1mm *ASTM D7415 >30 17.3 16.7 17.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.0 12.3 13.3	INFRA-RED		method	limit/base		history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 17.3 16.7 17.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.0 12.3 13.3	Soot %	%	*ASTM D7844	>3	0.2		
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.0 12.3 13.3	Nitration	Abs/cm	*ASTM D7624	>20	5.7	5.2	
Oxidation Abs/.1mm *ASTM D7414 >25 13.0 12.3 13.3	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3	16.7	17.8
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 9.8 8.5 8.2 7.8	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.0	12.3	13.3
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.5	8.2	7.8



OIL ANALYSIS REPORT



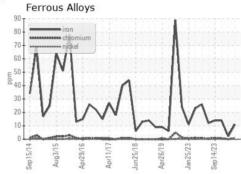


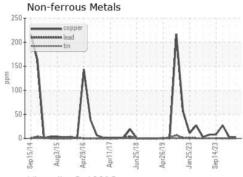


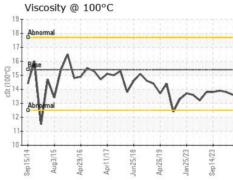
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

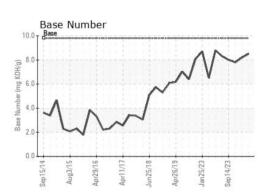
FLUID PROPE	ERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.8	13.9

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

: GFL0097179 : 06035609 : 10790838 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 15 Dec 2023 : 19 Dec 2023 Diagnosed Diagnostician : Don Baldridge

GFL Environmental - 073 - Warner Robins - Transwaste

155 Story Road Warner Robins, GA US 31093

Contact: JOSH MALONEY

jmaloney@gflenv.com T:

* - 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)

F: