

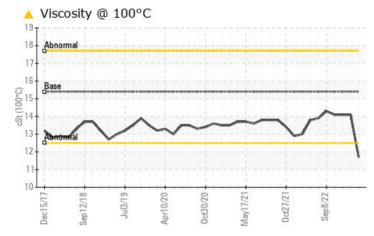


Machine Id 2587

Component Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (10 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC	C TES	FRESULT	S			
Sample Status				ATTENTION	NORMAL	NORMAL
Visc @ 100°C	cSt	ASTM D445	15.4	<u> </u>	14.1	14.1

Customer Id: GFL102 Sample No.: GFL0073277 Lab Number: 05870659 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 <u>don.b505@comcast.net</u>

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

RECOMMENDE	ED ACTIONS			
Action	Status	Date	Done By	Description
Change Fluid			?	Oil and filter change at the time of sampling has been noted.
Change Filter			?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS



28 Mar 2023 Diag: Doug Bogart

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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.



23 Jan 2023 Diag: Jonathan Hester





Resample at the next service interval to monitor.All component wear rates are normal. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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.

23 Nov 2022 Diag: Jonathan Hester





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





OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY

Machine Id 2587

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (10 GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

	10000
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-2017 Sep2018 Jui2019 Apr2020 Oct2020 May2021 Oct2021 Sep2022

	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0073277	GFL0045990	GFL0045992
Sample Date		Client Info		02 Jun 2023	28 Mar 2023	23 Jan 2023
Machine Age	hrs	Client Info		600	600	600
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	44	90	71
Chromium	ppm	ASTM D5185m	>20	2	3	3
Nickel	ppm	ASTM D5185m	>2	- <1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	10	33	29
Lead	ppm	ASTM D5185m	>40	5	16	15
Copper	ppm		>330	3	10	10
Tin	ppm		>15	ر 1	1	<1
Vanadium	ppm	ASTM D5185m	>15	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ppm		11	-	-	-
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	16	15	15
Barium	ppm	ASTM D5185m	60	2	0	0
Molybdenum		ASTM D5185m				
	ppm			110	73	69
-	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm ppm	ASTM D5185m ASTM D5185m	0 1010	<1 712	1 890	<1 865
Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 1010 1070	<1 712 1349	1 890 1269	<1 865 1195
Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 1010 1070 1150	<1 712 1349 985	1 890 1269 1053	<1 865 1195 962
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 1010 1070 1150 1270	<1 712 1349 985 1173	1 890 1269 1053 1296	<1 865 1195 962 1163
Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 1010 1070 1150	<1 712 1349 985	1 890 1269 1053	<1 865 1195 962
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 1010 1070 1150 1270	<1 712 1349 985 1173	1 890 1269 1053 1296	<1 865 1195 962 1163
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 1010 1070 1150 1270 2060 limit/base	<1 712 1349 985 1173 3478	1 890 1269 1053 1296 2881	<1 865 1195 962 1163 3008
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	0 1010 1070 1150 1270 2060 limit/base	<1 712 1349 985 1173 3478 current	1 890 1269 1053 1296 2881 history1 14 12	<1 865 1195 962 1163 3008 history2 12 13
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm 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 1010 1070 1150 1270 2060 limit/base >25 >20	<1 712 1349 985 1173 3478 current 10	1 890 1269 1053 1296 2881 history1 14 12 79	<1 865 1195 962 1163 3008 history2 12 13 85
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	0 1010 1070 1150 1270 2060 limit/base >25 >20	<1 712 1349 985 1173 3478 current 10 5	1 890 1269 1053 1296 2881 history1 14 12	<1 865 1195 962 1163 3008 history2 12 13
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm 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 1010 1070 1150 1270 2060 limit/base >25 >20	<1 712 1349 985 1173 3478 <u>current</u> 10 5 24	1 890 1269 1053 1296 2881 history1 14 12 79	<1 865 1195 962 1163 3008 history2 12 13 85 <1.0
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm 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 ASTM D5185m	0 1010 1070 1150 1270 2060 limit/base >25 >20 >20	<1 712 1349 985 1173 3478 current 10 5 24 0.4	1 890 1269 1053 1296 2881 history1 14 12 79 <1.0	<1 865 1195 962 1163 3008 history2 12 13 85
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D5284	0 1010 1070 1150 1270 2060 limit/base >25 >20 >20 >3.0 limit/base >6	<1 712 1349 985 1173 3478 current 10 5 24 0.4 current	1 890 1269 1053 1296 2881 history1 14 12 79 <1.0 history1	<1 865 1195 962 1163 3008 history2 12 13 85 <1.0 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D51854	0 1010 1070 1150 1270 2060 limit/base >25 	<1 712 1349 985 1173 3478 current 10 5 24 0.4 current 0.7	1 890 1269 1053 1296 2881 history1 14 12 79 <1.0 history1 1.1	<1 865 1195 962 1163 3008 history2 12 13 85 <1.0 history2 0.9
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm 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 ASTM D3524 *ASTM D7824 *ASTM D7824	0 1010 1070 1150 1270 2060 limit/base >25 	<1 712 1349 985 1173 3478 current 10 5 24 0.4 current 0.7 11.7	1 890 1269 1053 1296 2881 history1 14 12 79 <1.0 history1 1.1 1.1 15.0	<1 865 1195 962 1163 3008 history2 12 13 85 <1.0 history2 0.9 13.5 27.2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm 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 ASTM D3524 *ASTM D7824 *ASTM D7824	0 1010 1070 1150 1270 2060 imit/base >25 >20 >3.0 imit/base >6 >20 >30 imit/base	<1 712 1349 985 1173 3478 current 10 5 24 0.4 current 0.7 11.7 23.9	1 890 1269 1053 1296 2881 history1 14 12 79 <1.0 history1 1.1 15.0 30.0	<1 865 1195 962 1163 3008 history2 12 13 85 <1.0 history2 0.9 13.5



OIL ANALYSIS REPORT

