

PROBLEM SUMMARY

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

Sample Rating Trend DIRT

COMPONENT CONDITION SUMMARY

Component Diesel Engine

Fluid



Machine Id 723028-305164

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.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL		
Silicon	ppm	ASTM D5185m	>20	<u> </u>	<u> </u>	<mark>▲</mark> 32		

Customer Id: GFL856 Sample No.: GFL0092049 Lab Number: 06036579 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>

RECOMMENDED 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



21 Jun 2023 Diag: Don Baldridge

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend an early resample to monitor this condition.Cylinder, crank, or cam shaft wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. 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.



01 May 2023 Diag: Don Baldridge



We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend an early resample to monitor this condition.Cylinder, crank, or cam shaft wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. 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.

11 Apr 2023 Diag: Don Baldridge



No corrective action is recommended at this time. Resample at the next service interval to monitor.Cylinder, crank, or cam shaft wear is indicated. All other 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

DIRT

723028-305164 Component

Diesel Engine Fluid

Machine Id

PETRO CANADA DU

SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092049	GFL0084736	GFL007820
Sample Date		Client Info		12 Dec 2023	21 Jun 2023	01 May 202
Machine Age	mls	Client Info		302572	299745	296669
Oil Age	mls	Client Info		291436	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMA
CONTAMINA	TION	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		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>80	15	A 205	2 07
Chromium	ppm	ASTM D5185m	>5	1	6	6
Nickel	ppm	ASTM D5185m	>2	<1	2	3
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	2	1 5	▲ 7
_ead	ppm	ASTM D5185m	>30	4	12	0
Copper	ppm	ASTM D5185m	>150	15	6	4
Tin	ppm	ASTM D5185m	>5	2	2	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	57	3	3
Barium	ppm	ASTM D5185m	0	13	0	0
Molybdenum	ppm	ASTM D5185m	60	40	77	59
Vanganese	ppm	ASTM D5185m	0	3	2	2
Magnesium	ppm	ASTM D5185m	1010	486	1267	963
Calcium	ppm	ASTM D5185m	1070	1569	1367	1062
Phosphorus	ppm	ASTM D5185m	1150	732	1296	1002
Zinc	ppm	ASTM D5185m	1270	878	1655	1260
Sulfur	ppm	ASTM D5185m	2060	2599	4002	3402
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	A 23	2 6	A 32
Sodium	ppm	ASTM D5185m		27	7	10
Potassium	ppm	ASTM D5185m	>20	6	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	1.9	2
Nitration	Abs/cm	*ASTM D7624	>20	5.7	18.4	12.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	32.8	23.2
FLUID DEGRA		method	limit/base	current	history1	history2
FLUID DEGRA	ADATION Abs/.1mm	*ASTM D7414	limit/base	current 19.2	history1 35.7	history2 21.0

DIAGNOSIS

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

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.



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Jan 29/19

OIL ANALYSIS REPORT





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Feb 8/23

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	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	16.8	14.7
GRAPHS						

Ferrous Alloys



 Certificate L2367
 Test Package
 : FLEET

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