

PROBLEM SUMMARY

Sample Rating Trend

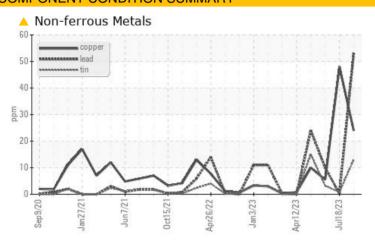
WEAR

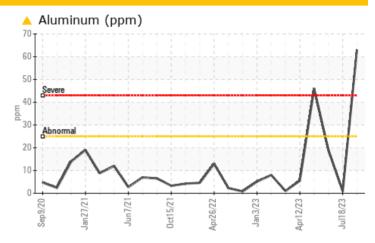
Machine Id **526013-7002**

Component **Diesel Engine**

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

COMPONENT CONDITION SUMMARY





RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	MARGINAL	NORMAL		
Aluminum	ppm	ASTM D5185m	>25	△ 63	<1	19		
Lead	ppm	ASTM D5185m	>45	△ 53	<1	10		
Tin	ppm	ASTM D5185m	>4	1 3	<1	3		

Customer Id: GFL657 Sample No.: GFL0086572 Lab Number: 05921043 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
Resample			?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

18 Jul 2023 Diag: Don Baldridge

WEAR



No corrective action is recommended at this time. Resample at the next service interval to monitor. An increase in the copper level is noted. 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.



08 Jun 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.



25 Apr 2023 Diag: Don Baldridge

WEAR



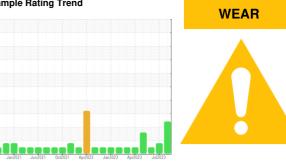
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. We recommend an early resample to monitor this condition. The aluminum level is abnormal. The tin level is abnormal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil.





OIL ANALYSIS REPORT

Sample Rating Trend



526013-7002

Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Wear

Bearing and/or bushing wear is indicated.

Contamination

There is no indication of any contamination in the oil.

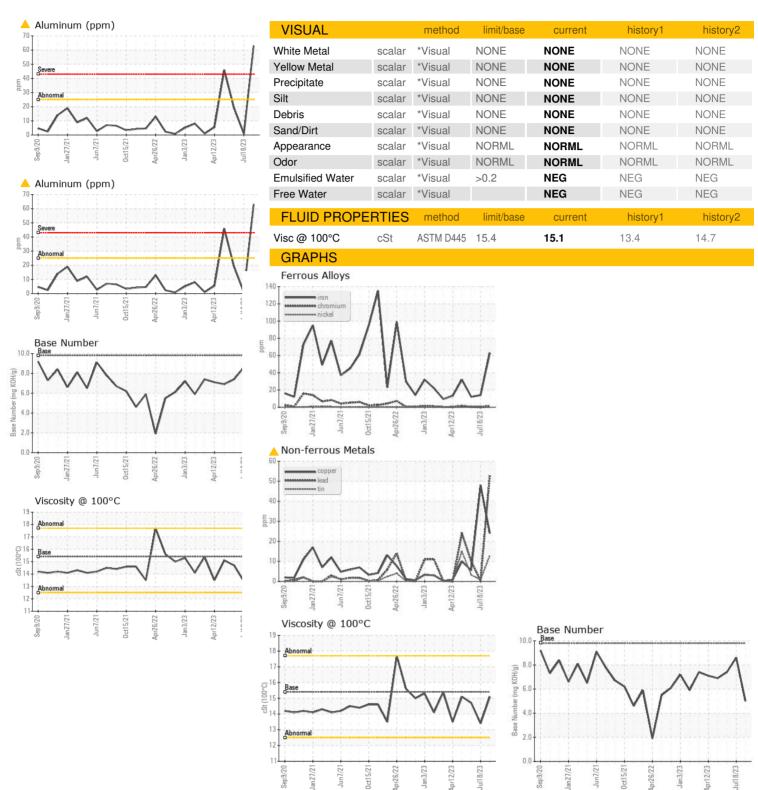
Fluid Condition

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

AL)		p2020 Jan2	2021 Jun2021 Oct2021	Apr2022 Jan2023 Apr2023	Jul2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0086572	GFL0070903	GFL0067919
Sample Date		Client Info		08 Aug 2023	18 Jul 2023	08 Jun 2023
Machine Age	hrs	Client Info		19531	19505	19390
Oil Age	hrs	Client Info		0	306	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	MARGINAL	NORMAL
CONTAMINATI	ION	method	limit/base	current	history1	history2
-uel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>110	63	14	12
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	2	<1	<1
Γitanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	△ 63	<1	19
_ead	ppm	ASTM D5185m	>45	53	<1	10
Copper	ppm	ASTM D5185m	>85	24	<u>48</u>	6
 Γin	ppm	ASTM D5185m	>4	<u> 13</u>	<1	3
/anadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	6	5
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	60	67	63	66
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1020	955	876
Calcium	ppm	ASTM D5185m	1070	1255	1142	1139
Phosphorus	ppm	ASTM D5185m	1150	1028	1036	1063
Zinc	ppm	ASTM D5185m	1270	1352	1217	1247
Sulfur	ppm	ASTM D5185m	2060	3776	3609	3260
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	6	7	4
Sodium	ppm	ASTM D5185m		2	17	1
Potassium	ppm	ASTM D5185m	>20	6	0	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	13.4	7.7	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.2	18.4	22.1
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.8	14.8	21.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.0	8.6	7.4
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OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: GFL0086572 : 05921043 : 10592957

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 Aug 2023 Diagnosed : 11 Aug 2023 : Don Baldridge Diagnostician

GFL Environmental - 657 - Charlottesville Hauling 5498 Richmond Road

Troy, VA US 22974

Contact: Brian Ulickas bulickas@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) T: F: