

PROBLEM SUMMARY

Sample Rating Trend

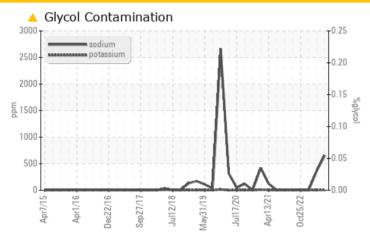
GLYCOL

Machine Id 10564 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (11 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for possible coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	NORMAL		
Sodium	mag	ASTM D5185m		655	A 363	4		

Customer Id: GFL095 Sample No.: GFL0083633 Lab Number: 05885409 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

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

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.
Resample			?	We recommend an early resample to monitor this condition.
Check Glycol Access			?	We advise that you check for the source of the coolant leak.

HISTORICAL DIAGNOSIS

18 Apr 2023 Diag: Jonathan Hester

GLYCOL



We advise that you check for possible coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.



17 Jan 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 Oct 2022 Diag: Wes Davis

NORMAL



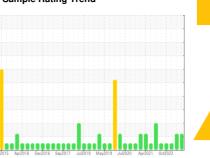
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL



Machine Id 10564 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (11 GAL)

DIAGNOSIS

Recommendation

We advise that you check for possible coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high.

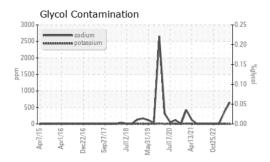
Fluid Condition

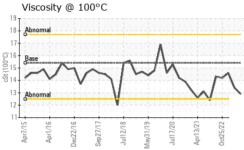
The BN result indicates that there is suitable alkalinity remaining in the oil.

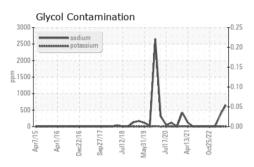
GAL)						
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0083633	GFL0074584	GFL0066927
Sample Date		Client Info		23 Jun 2023	18 Apr 2023	17 Jan 2023
Machine Age	hrs	Client Info		20947	20519	19942
Oil Age	hrs	Client Info		428	19942	573
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>75	28	41	37
Chromium	ppm	ASTM D5185m	>5	2	2	2
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	2	6	8
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m	>100	9	2	2
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	8	11	<1
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	85	76	64
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	852	972	912
Calcium	ppm	ASTM D5185m	1070	1049	1141	1090
Phosphorus	ppm	ASTM D5185m	1150	889	1035	984
Zinc	ppm	ASTM D5185m	1270	1158	1276	1192
Sulfur	ppm	ASTM D5185m	2060	3290	3752	3332
CONTAMINAN	ITS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	17	13	8
Sodium	ppm	ASTM D5185m		655	△ 363	4
Potassium	ppm	ASTM D5185m	>20	4	<1	0
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history 1	history 2
IINFNA-NED		memou	III III Dasc	Current	Thotoly 1	,
Soot %	%	*ASTM D7844	>6		1.4	2.2
Soot %		*ASTM D7844	>6	0.8	1.4	2.2
	% Abs/cm Abs/.1mm		>6			
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>6 >20	0.8 11.4	1.4 10.1	2.2 12.2
Soot % Nitration Sulfation FLUID DEGRAI	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415 method	>6 >20 >30 limit/base	0.8 11.4 22.6 current	1.4 10.1 20.7 history 1	2.2 12.2 24.3 history 2
Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>6 >20 >30 limit/base >25	0.8 11.4 22.6	1.4 10.1 20.7	2.2 12.2 24.3

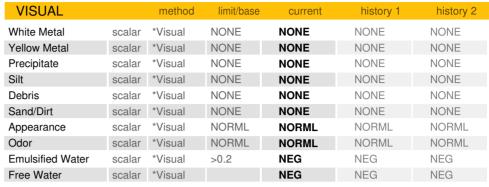


OIL ANALYSIS REPORT



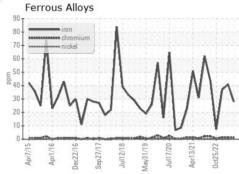


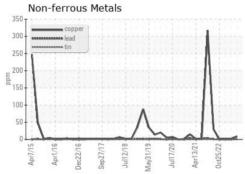


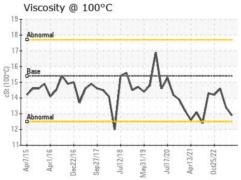


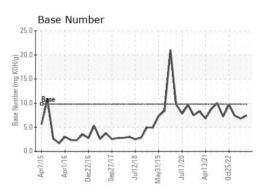
FLUID PROP	EKIIE2	method	ilmit/base	current	nistory i	nistory 2
Visc @ 100°C	cSt	ASTM D445	15.4	12.9	13.4	14.6

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: 05885409 : 10535892

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 28 Jun 2023 : GFL0083633 Received

Diagnosed : 03 Jul 2023 : Jonathan Hester Diagnostician

Test Package : FLEET (Additional Tests: Glycol)

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)

GFL Environmental - 095 - Atlanta West

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