

OIL ANALYSIS REPORT

(H904568) 225145

Diesel Engine

PETRO CANADA DURON SHP 15W40 (10 GAL)

Sample Rating Trend **GLYCOL**

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

Sodium and/or potassium levels remain high. Fuel content negligible. Test for glycol is negative.

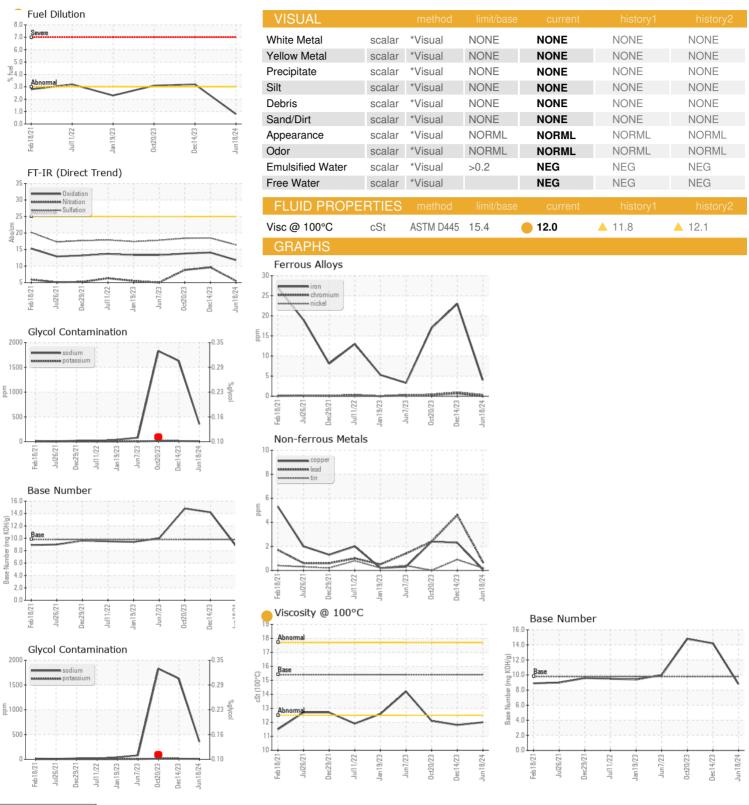
Fluid Condition

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

GAL)		Feb2021 Ju	IŽ021 DecŽ021 JulŽ022	Jan2023 Jun2023 Oct2023 Dec20	123 Jun 2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0106941	GFL0106945	GFL0098804
Sample Date		Client Info		18 Jun 2024	14 Dec 2023	20 Oct 2023
Machine Age	hrs	Client Info		20811	20466	20396
Oil Age	hrs	Client Info		332	301	231
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ATTENTION	ABNORMAL	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	4	23	17
Chromium	ppm	ASTM D5185m	>15	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>15	2	5	5
Lead	ppm	ASTM D5185m	>70	<1	5	2
Copper	ppm	ASTM D5185m	>175	<1	2	2
Tin	ppm	ASTM D5185m	>5	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	23	40	50
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	69	133	117
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	859	1269	904
Calcium	ppm	ASTM D5185m	1070	945	1365	1058
Phosphorus	ppm	ASTM D5185m	1150	1006	1321	1028
Zinc	ppm	ASTM D5185m		1143	1664	1208
Sulfur	ppm	ASTM D5185m		3395	4253	3342
CONTAMINAN		method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>25	10	<u>^</u> 27	23
Sodium	ppm	ASTM D5185m	00	352	1627	1828
Potassium	ppm	ASTM D5185m	>20	7	12	13
Fuel	%	ASTM D3524	>3.0	0.8	▲ 3.2	▲ 3.1 ▲ 0.10
Glycol	%	*ASTM D2982		NEG	NEG	▲ 0.12
INFRA-RED	2/	method	limit/base		history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624		5.5	9.6	8.8
Sulfation	Abs/.1mm	*ASTM D7415		16.4	18.5	18.4
FLUID DEGRAI		method	limit/base		history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.8	14.1	13.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.8	14.2	14.8



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Laboratory Sample No. Lab Number : 06215424

Unique Number : 11088288

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0106941 Received

: 20 Jun 2024 Tested : 24 Jun 2024 Diagnosed

: 24 Jun 2024 - Jonathan Hester

Knoxville, TN US 37921 Contact: Doug Weeden dweeden@gflenv.com

1901 Sutherland Ave

GFL Environmental - 097 - Knoxville Hauling

Test Package : FLEET (Additional Tests: Glycol, PercentFuel) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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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