

OIL ANALYSIS REPORT

(EP1959) **AUTOCAR 3812**

Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (11 GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material.

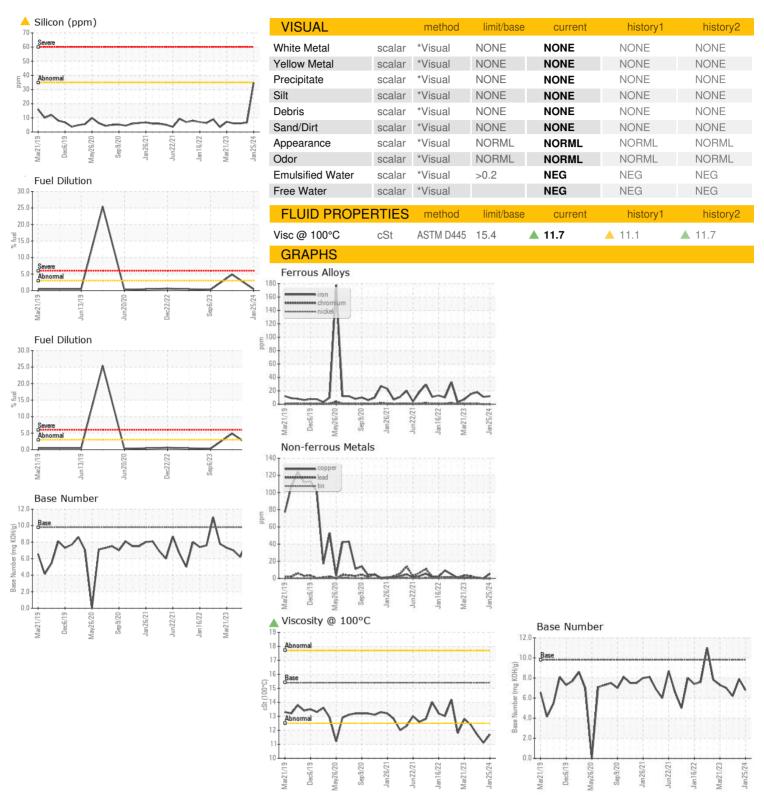
▲ Fluid Condition

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

JAL)		sr2019 Dec20	19 May2020 Sep2020	Jan2021 Jun2021 Jan2022 Ma	r2023 Jan20	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0109111	GFL0086180	GFL0092467
Sample Date		Client Info		25 Jan 2024	30 Nov 2023	06 Sep 2023
Machine Age	hrs	Client Info		13760	0	13292
Oil Age	hrs	Client Info		13760	13516	598
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>165	12	11	18
Chromium	ppm	ASTM D5185m	>5	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	1	<1
Lead	ppm	ASTM D5185m	>150	0	0	<1
Copper	ppm	ASTM D5185m	>90	5	0	1
Tin	ppm	ASTM D5185m	>5	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	24	32	3
Barium	ppm	ASTM D5185m	0	0	1	0
Molybdenum	ppm	ASTM D5185m	60	59	55	51
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	669	699	809
Calcium	ppm	ASTM D5185m	1070	1080	1115	929
Phosphorus	ppm	ASTM D5185m	1150	929	929	879
Zinc	ppm	ASTM D5185m	1270	1060	1176	1091
Sulfur	ppm	ASTM D5185m	2060	2716	3041	2900
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	4 35	7	6
Sodium	ppm	ASTM D5185m		3	1	5
Potassium	ppm	ASTM D5185m	>20	0	2	<1
Fuel	%	ASTM D3524	>3.0	0.4	4.9	0.3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.5	0.1	0.6
Nitration	Abs/cm	*ASTM D7624	>20	6.4	4.3	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	15.6	20.1
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.7	10.5	15.0
Base Number (BN)	mg KOH/g		9.8	6.8	7.9	6.2
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Laboratory Sample No. Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0109111

: 06072490 : 10849167

Diagnostician : Sean Felton Test Package : FLEET (Additional Tests: PercentFuel)

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)

Recieved

Diagnosed

: 29 Jan 2024

: 31 Jan 2024

GFL Environmental - 009 - Fairburn

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Contact: Eric Jones erjones@gflenv.com T: (678)630-9927

Submitted By: Eric Jones