

OIL ANALYSIS REPORT



Machine Id 824023 Component **Diesel Engine**

PETRO CANADA DURON S

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

Light fuel dilution occurring.

Fluid Condition

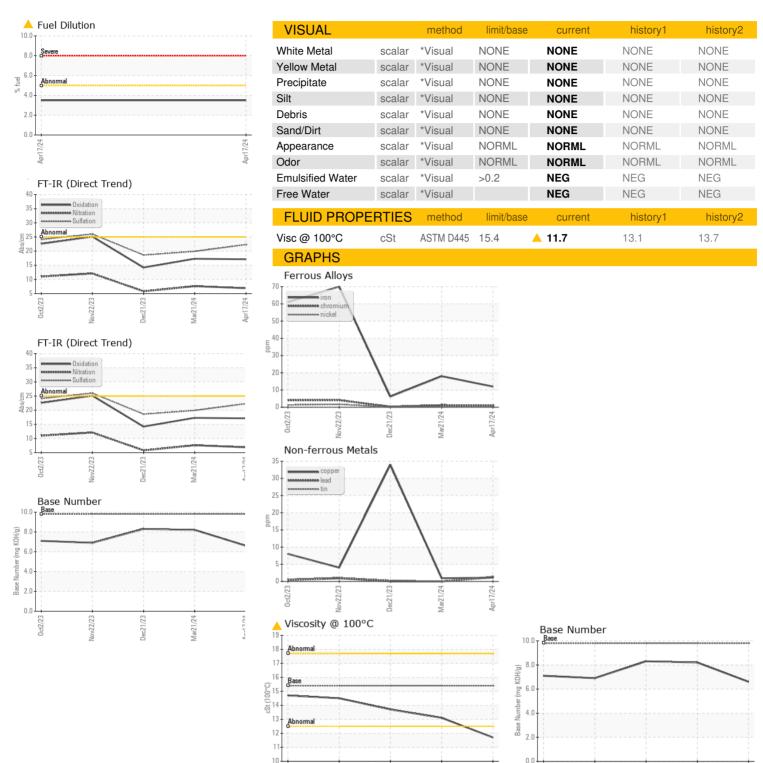
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.

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ON SHP 15W40 (- GAL)	002023	Nov2023	Dec2023	Ma ² 024	April 224	
SAMPLE INFORM	MATION	method	limit/base		current	history1	history2
Sample Number		Client Info		GFL	.0097828	GFL0097850	GFL0103589
Sample Date		Client Info		17 A	Apr 2024	21 Mar 2024	21 Dec 2023
Machine Age	hrs	Client Info		0		0	0
Oil Age	hrs	Client Info		600		515	600
Oil Changed		Client Info		N/A		N/A	N/A

Campic Number		Oliciti IIIIo		GI E0037020	GI 20037030	GI L0100000
Sample Date		Client Info		17 Apr 2024	21 Mar 2024	21 Dec 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		600	515	600
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method	7 0.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	12	18	6
Chromium	ppm	ASTM D5185m		1	1	<1
Nickel	ppm	ASTM D5185m	>2	- <1	<1	0
Titanium	ppm	ASTM D5185m	/ <u>_</u>	<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>30	3	3	3
Lead		ASTM D5185m	>30	1	0	0
	ppm	ASTM D5185m	>150	1	<1	34
Copper	ppm					
Tin	ppm	ASTM D5185m	>5	1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	327	<1	2
Barium	ppm	ASTM D5185m	0	0	0	9
Molybdenum	ppm	ASTM D5185m	60	75	53	60
Manganese	ppm	ASTM D5185m	0	<1	0	0
Magnesium	ppm	ASTM D5185m	1010	407	931	930
Calcium	ppm	ASTM D5185m	1070	1265	1003	1047
Phosphorus	ppm	ASTM D5185m	1150	1005	875	1034
Zinc	ppm	ASTM D5185m	1270	1095	1169	1189
Sulfur	ppm	ASTM D5185m	2060	3281	3323	3182
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	10	5	3
Sodium	ppm	ASTM D5185m		1	4	0
Potassium	ppm	ASTM D5185m	>20	2	0	2
Fuel	%	ASTM D3524	>5	△ 3.5	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8	0.5	0.2
Nitration	Abs/cm	*ASTM D7624		6.9	7.6	5.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	19.9	18.6
FLUID DEGRAI			limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	17.3	14.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.6	8.2	8.3



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06156752

: GFL0097828 Unique Number : 10992175

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

Received **Tested** Diagnosed

Dec21/23

: 22 Apr 2024 : 25 Apr 2024

Mar21/24

: 25 Apr 2024 - Wes Davis

Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

GFL Environmental - 958 - Tri County HC Morton 1090 W. Jefferson St. Morton, IL US 61550

Dec21/23

Contact: Bryan Link blink@gflenv.com T:

 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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Submitted By: Also GFL958,958A, 958B - Bryan Link

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