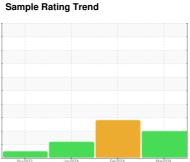


# **OIL ANALYSIS REPORT**









Machine Id 914051 Component **Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (36 QTS)

# **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

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

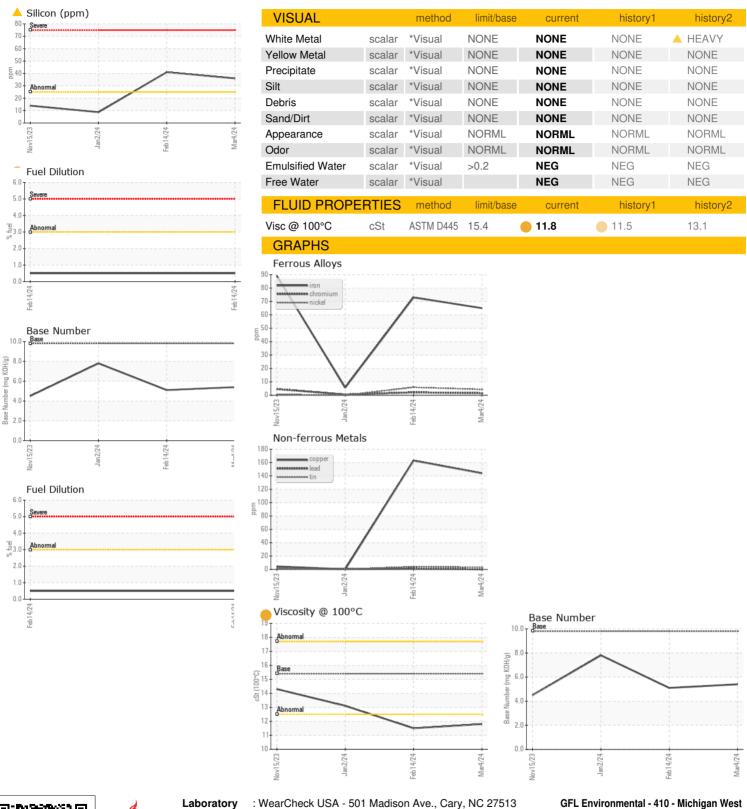
## Fluid Condition

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

N SHP 15W40 (3	6 QTS)	Nov202	3 Jan 2024	Feb2024 M	ar2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0104367	GFL0110141	GFL0104253
Sample Date		Client Info		04 Mar 2024	14 Feb 2024	02 Jan 2024
Machine Age	hrs	Client Info		41	1505	34
Oil Age	hrs	Client Info		600	600	34
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
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
ron	ppm	ASTM D5185m	>120	65	73	6
Chromium	ppm	ASTM D5185m	>20	2	2	<1
Nickel	ppm	ASTM D5185m	>5	4	<u>^</u> 6	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	5	2
Lead	ppm	ASTM D5185m	>40	0	1	<1
Copper	ppm	ASTM D5185m	>330	144	163	<1
Tin	ppm	ASTM D5185m	>15	3	4	<1
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	25	26	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	94	99	48
Manganese	ppm	ASTM D5185m	0	4	4	<1
Magnesium	ppm	ASTM D5185m	1010	807	783	793
Calcium	ppm	ASTM D5185m	1070	1243	1267	865
Phosphorus	ppm	ASTM D5185m	1150	798	777	969
Zinc	ppm	ASTM D5185m	1270	962	939	1100
Sulfur	ppm	ASTM D5185m	2060	2015	2018	2908
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>△</b> 36	<u>4</u> 1	9
Sodium	ppm	ASTM D5185m		3	4	3
Potassium	ppm	ASTM D5185m	>20	4	6	2
Fuel	%	ASTM D3524	>3.0	<1.0	0.5	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.8	0.8	0
Nitration	Abs/cm	*ASTM D7624	>20	12.5	12.1	3.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.8	23.7	17.9
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.9	23.3	13.0
Base Number (BN)	mg KOH/g	ASTM D2896		5.4	5.1	7.8
= ass ramber (BIV)	mg noring		3.0	0.7	0.1	,



# **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number : 06109926

: GFL0104367

Unique Number: 10913423

Received **Tested** 

Diagnosed

: 06 Mar 2024

: 07 Mar 2024

: 08 Mar 2024 - Don Baldridge

Test Package: FLEET (Additional Tests: FuelDilution) 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)

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