

## **OIL ANALYSIS REPORT**

Sample Rating Trend

FUEL

### Machine Id FREIGHTLINER 95

Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (13 LTR)

#### DIAGNOSIS

#### Recommendation

We advise that you check the fuel injection system. 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.

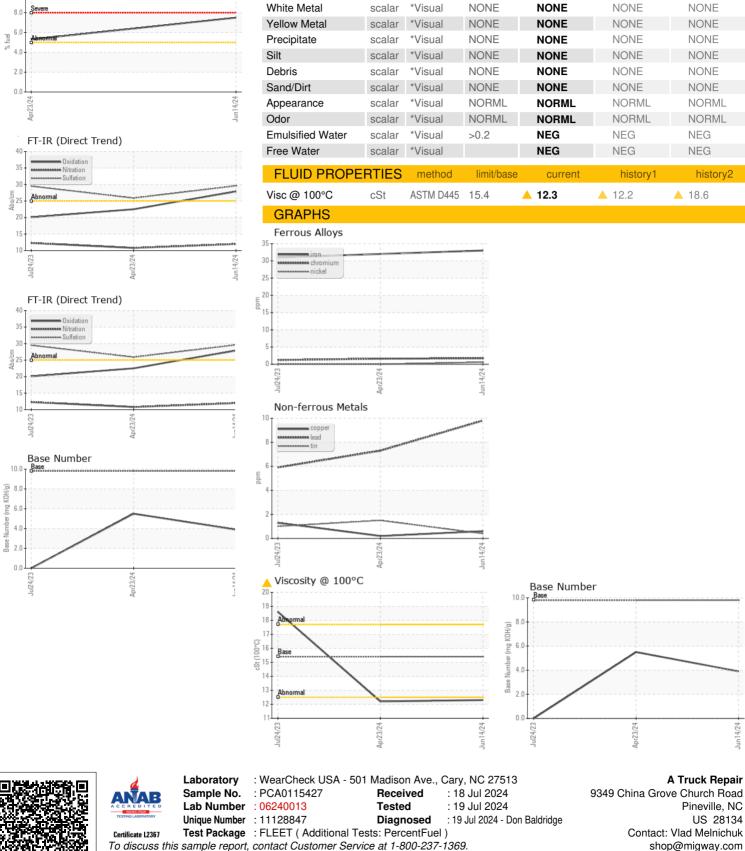
#### Contamination

There is a moderate amount of fuel present in the oil.

#### Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

LTR) Juteza Aprilaza Junteza						
SAMPLE INFOR		method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0115427	PCA0104923	PCA0102660
Sample Date		Client Info		14 Jun 2024	23 Apr 2024	24 Jul 2023
Machine Age	mls	Client Info		552895	529361	403116
Oil Age	mls	Client Info		25000	25000	25976
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	TION	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	>80	33	32	31
Chromium	ppm	ASTM D5185m	>5	2	2	1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	2	1	<1
_ead	ppm	ASTM D5185m	>30	10	7	6
Copper	ppm	ASTM D5185m	>150	<1	<1	1
Fin	ppm	ASTM D5185m	>5	<1	2	1
/anadium	ppm	ASTM D5185m	20	0	0	<1
Cadmium	ppm	ASTM D5185m		۰ <1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	1	<1
Barium	ppm	ASTM D5185m	0	0	<1	0
Volybdenum	ppm	ASTM D5185m	60	54	61	55
Vanganese	ppm	ASTM D5185m	0	<1	<1	<1
Vagnesium	ppm	ASTM D5185m	1010	749	946	912
Calcium	ppm	ASTM D5185m	1070	932	1066	1113
Phosphorus	ppm	ASTM D5185m	1150	788	995	936
Zinc	ppm	ASTM D5185m	1270	856	1223	1141
Sulfur	ppm	ASTM D5185m	2060	2393	3199	3130
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	3	4	3
Sodium	ppm	ASTM D5185m		5	1	1
Potassium	ppm	ASTM D5185m	>20	3	<1	0
Fuel	%	ASTM D3524	>5	<u> </u>	▲ 5.3	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	2.9	2.3	4.4
Nitration	Abs/cm	*ASTM D7624	>20	12.0	10.8	12.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.6	25.9	29.5
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	27.9	22.5	20.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	3.9	5.5	▲ 0.0



\* - 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)

OIL

Fuel Dilution

10.0

DIAGNOSTICS

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# **OIL ANALYSIS REPORT**

method

limit/base

current

history1

history2

VISUAL