

## **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL

#### Machine Id

# 10650 PETERBILT 320

Diesel Engine

Fluid PETRO CANADA DURON SHP 15W40 (48 QTS)

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

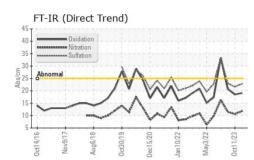
## Fluid Condition

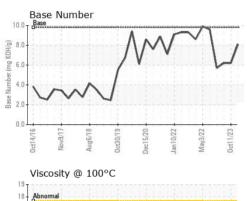
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

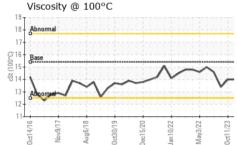
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117472	GFL0094732	GFL0087113
Sample Date		Client Info		04 Apr 2024	11 Oct 2023	30 Jun 2023
Machine Age	hrs	Client Info		17706	16708	16062
Oil Age	hrs	Client Info		1644	646	599
Oil Changed		Client Info		Not Changd	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
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	>100	36	34	56
Chromium	ppm	ASTM D5185m	>20	<1	1	2
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	3	6	12
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	4	2	1
Tin	ppm	ASTM D5185m	>15	0	<1	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	2	5	6
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	62	64
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	980	895	973
Calcium	ppm	ASTM D5185m	1070	1056	1041	1133
Phosphorus	ppm	ASTM D5185m	1150	1053	1021	1019
Zinc	ppm	ASTM D5185m	1270	1271	1249	1313
Sulfur	ppm	ASTM D5185m	2060	3629	2884	3767
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	8	18
Sodium	ppm	ASTM D5185m		6	8	13
Potassium	ppm	ASTM D5185m	>20	8	5	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.5	1	1
Nitration	Abs/cm	*ASTM D7624	>20	11.8	10.6	11.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8	21.6	23.0
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	18.5	20.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.1	6.2	6.2



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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.0	13.4
GRAPHS						

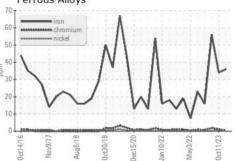
Ferrous Alloys

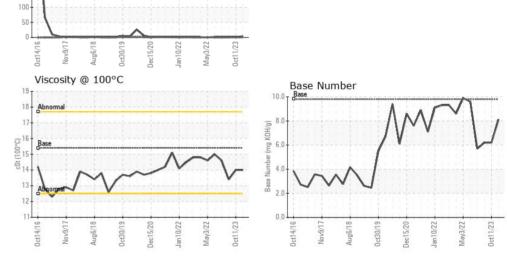
Non-ferrous Metals

lead

400

350





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 001 - Raleigh(CNG) Sample No. : GFL0117472 Received : 05 Apr 2024 3741 Conquest Drive Lab Number : 06139677 Tested : 06 Apr 2024 Garner, NC Unique Number : 10964485 Diagnosed : 06 Apr 2024 - Wes Davis US 27529 Test Package : FLEET Contact: Craig Johnson Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. craig.johnson@gflenv.com T: (919)662-7100 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. F: (919)662-7130

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Submitted By: aka Keith - Ronald Gregory

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