



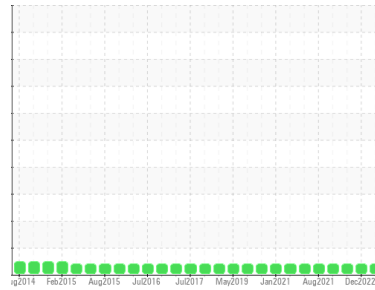
PROBLEM SUMMARY

Sample Rating Trend

VISCOSITY

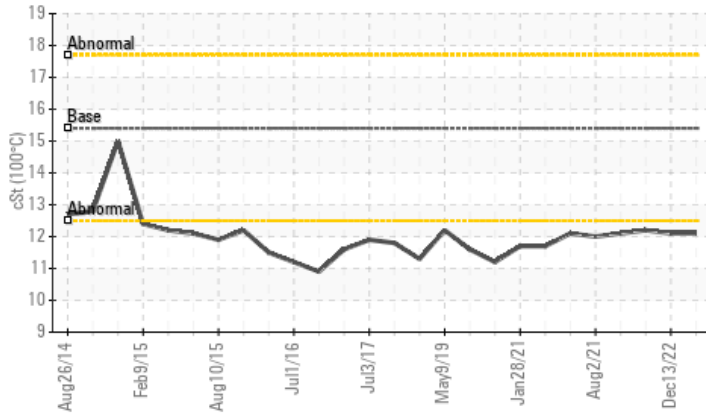


Machine Id
10432 KENWORTH T300
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (26 GAL)



COMPONENT CONDITION SUMMARY

▲ Viscosity @ 100°C



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	ATTENTION	ATTENTION
Visc @ 100°C	cSt	ASTM D445	15.4	▲ 12.1	▲ 12.1	▲ 12.2

Customer Id: GFL001
Sample No.: GFL0094686
Lab Number: 05968710
Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

13 Dec 2022 Diag: Jonathan Hester

VISCOSITY



No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

view report



13 Jun 2022 Diag: Angela Borella

VISCOSITY



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view report



07 Jan 2022 Diag: Jonathan Hester

VISCOSITY



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view report





OIL ANALYSIS REPORT

Sample Rating Trend

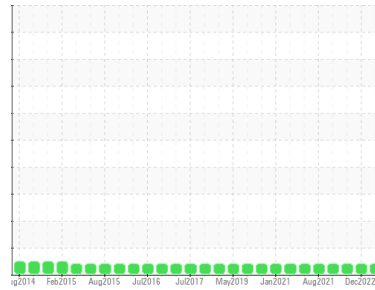
VISCOSITY



Machine Id
10432 KENWORTH T300

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 15W40 (26 GAL)



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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0094686	GFL0052738	GFL0047948
Sample Date	Client Info	02 Oct 2023	13 Dec 2022	13 Jun 2022
Machine Age	hrs	22600	211685	211685
Oil Age	hrs	0	320	336
Oil Changed	Client Info	Not Changed	Changed	Changed
Sample Status		ATTENTION	ATTENTION	ATTENTION

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	<1.0	<1.0
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	5	21	12
Chromium	ppm ASTM D5185m >20	<1	1	<1
Nickel	ppm ASTM D5185m >2	0	0	0
Titanium	ppm ASTM D5185m >2	0	0	0
Silver	ppm ASTM D5185m >2	0	0	<1
Aluminum	ppm ASTM D5185m >25	<1	2	2
Lead	ppm ASTM D5185m >40	<1	<1	1
Copper	ppm ASTM D5185m >330	<1	<1	<1
Tin	ppm ASTM D5185m >15	0	<1	<1
Antimony	ppm ASTM D5185m	---	---	---
Vanadium	ppm ASTM D5185m	<1	0	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 0	3	18	11
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 60	65	69	58
Manganese	ppm ASTM D5185m 0	<1	<1	<1
Magnesium	ppm ASTM D5185m 1010	1075	731	875
Calcium	ppm ASTM D5185m 1070	1199	1393	1088
Phosphorus	ppm ASTM D5185m 1150	1131	1027	995
Zinc	ppm ASTM D5185m 1270	1361	1214	1249
Sulfur	ppm ASTM D5185m 2060	3289	3645	3100

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	4	3	4
Sodium	ppm ASTM D5185m	6	2	1
Potassium	ppm ASTM D5185m >20	<1	0	0

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.3	0.9	0.6
Nitration	Abs/cm *ASTM D7624 >20	5.2	8.0	6.6
Sulfation	Abs/.1mm *ASTM D7415 >30	17.8	20.9	19.6

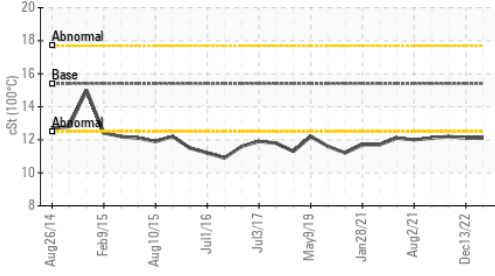
FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	13.1	14.6	14.8
Base Number (BN)	mg KOH/g ASTM D2896 9.8	9.0	9.1	9.0

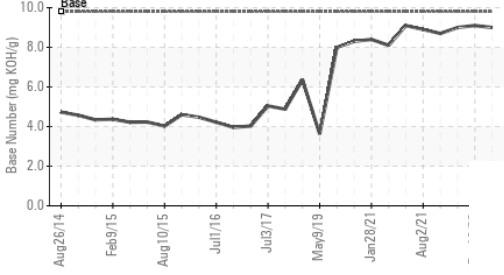


OIL ANALYSIS REPORT

▲ Viscosity @ 100°C



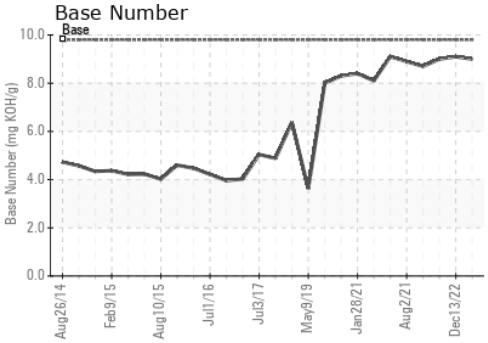
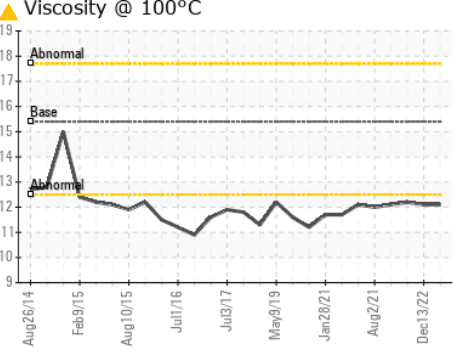
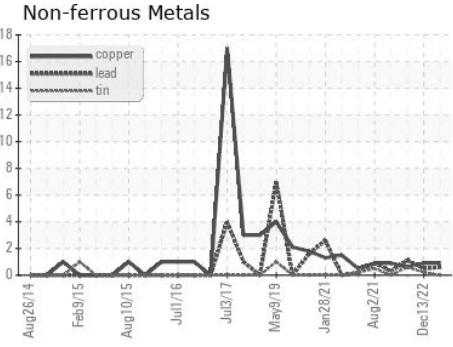
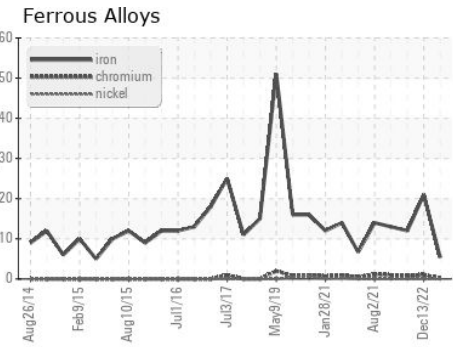
Base Number



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4 ▲ 12.1	▲ 12.1	▲ 12.2

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0094686 **Received** : 04 Oct 2023
Lab Number : 05968710 **Diagnosed** : 06 Oct 2023
Unique Number : 10675261 **Diagnostician** : Don Baldrige
Test Package : FLEET

GFL Environmental - 001 - Raleigh(CNG)
 3741 Conquest Drive
 Garner, NC
 US 27529
 Contact: Craig Johnson
 craig.johnson@gflenv.com
 T: (919)662-7100
 F: (919)662-7130

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)