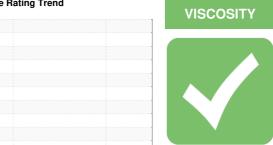


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

521057-SW7104 FREIGHTLINER CASCADIA 125

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

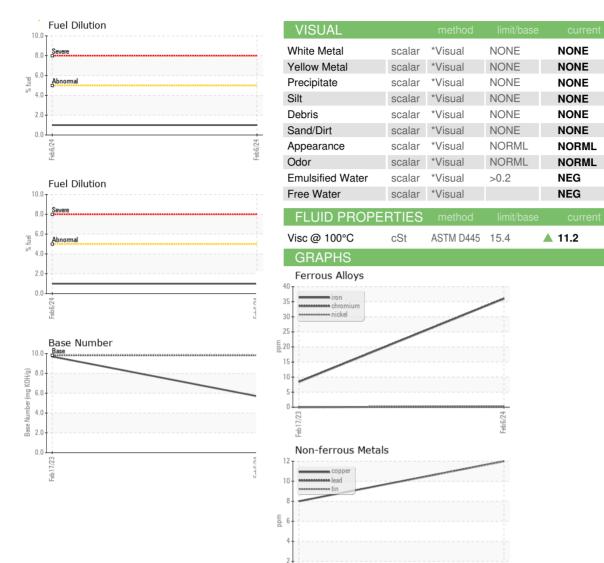
▲ Fluid Condition

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

GAL)						
SAMPLE INFOR	MATION	method	Feb 2023 Iimit/base	Feb ² 024 Current	history1	history2
Sample Number	WIATION	Client Info	mmodoc	GFL0103989	GFL0065815	1113101 y 2
Sample Date		Client Info		06 Feb 2024	17 Feb 2023	
Machine Age	mls	Client Info		0	364786	
Oil Age	mls	Client Info		0	0	
Oil Changed	0	Client Info		N/A	N/A	
Sample Status				ATTENTION	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	36	8	
Chromium	ppm	ASTM D5185m	>5	<1	0	
Nickel	ppm	ASTM D5185m	>2	0	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>3	<1	0	
Aluminum	ppm	ASTM D5185m	>30	18	2	
Lead	ppm	ASTM D5185m	>30	<1	<1	
Copper	ppm	ASTM D5185m	>150	12	8	
Tin	ppm		>5	<1	0	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	37	0	
Barium	ppm	ASTM D5185m	0	1	0	
Molybdenum	ppm	ASTM D5185m	60	2	59	
Manganese	ppm	ASTM D5185m	0	1	<1	
Magnesium	ppm	ASTM D5185m	1010	764	876	
Calcium	ppm	ASTM D5185m	1070	1371	1298	
Phosphorus	ppm	ASTM D5185m	1150	702	1014	
Zinc	ppm	ASTM D5185m	1270	824	1309	
Sulfur	ppm	ASTM D5185m	2060	2832	4121	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	14	3	
Sodium	ppm	ASTM D5185m		2	0	
Potassium	ppm	ASTM D5185m	>20	67	2	
Fuel	%	ASTM D3524	>5	1.0	<1.0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	9.5	7.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	19.4	
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	14.8	
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 9.8	16.9 5.7	14.8 9.7	



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No.

Lab Number : 06093550

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0103989

cSt (100°C)

10

Unique Number : 10886403

Received **Tested** Diagnosed

: 19 Feb 2024 : 22 Feb 2024

: 22 Feb 2024 - Jonathan Hester Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

(mg K0H/g)

0.0

Base Number

GFL Environmental - 980 - Northside Hauling 1820 Candle Ridge Park Dr Houston, TX

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

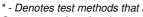
NEG

NEG

13.3

US 77073 Contact: Edwin Collins ecollins@gflenv.com

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)

Viscosity @ 100°C

T:

F: