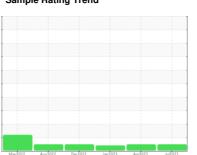


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



FREIGHTLINER BUS 12414 (S/N 4VZGCJAA9XCB71657)

Component

Diesel Engine

PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected 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.

15W40 (GAL)		May2022	Aug2022 Dec2022	Jan2023 Apr2023	Jul2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status	days days	Client Info Client Info Client Info Client Info Client Info		WC0831193 18 Jul 2023 0 97 Changed NORMAL	WC0797809 11 Apr 2023 0 88 Changed NORMAL	WC0775877 13 Jan 2023 0 140 Changed ATTENTION
CONTAMINATION	V	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium Cadmium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>100 >20 >2 >2 >2 >2 >2 >2 >40 >330 >15	2 <1 0 0 0 1 0 0 <1 0 0 0 0 0 0 0 0 0 0 0	2 0 0 0 0 0 0 0 <1 0	4 <1 0 0 0 1 <1 <1 0 0 0 0 0 0 0 0 0 0 0
ADDITIVES		method	limit/base	current	history1	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	1010 1070 1150 1270 2060 limit/base >25 >20	17 <1 64 <1 998 1206 1139 1338 4079 current 2 1 0 1.0	11 0 59 0 859 1019 999 1138 3163 history1 3 0 <1 <1.0	26 0 65 <1 918 1148 1015 1194 3785 history2 3 1 0 1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.1	0.2

Nitration

Sulfation

Oxidation

FLUID DEGRADATION

Base Number (BN) mg KOH/g ASTM D2896 9.6

Abs/cm *ASTM D7624 >20

Abs/.1mm *ASTM D7415 >30

Abs/.1mm *ASTM D7414 >25

4.5

17.0

12.6

9.3

5.0

17.3

12.7

9.4

5.3

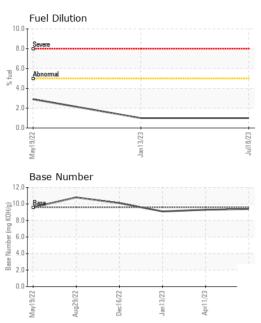
17.2

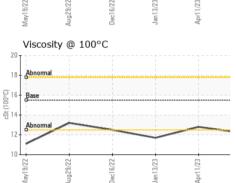
12.6

9.1



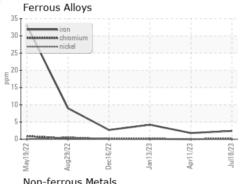
OIL ANALYSIS REPORT



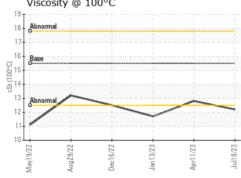


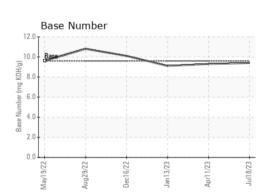
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
ELLID DDODED	TITO	mothod	limit/bass	ourront.	biotom/1	hiotom/0

I LOID I NOI LI	THES	memou			HISTORY	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.5	12.2	12.8	<u> </u>



8	copper				
mdd .				1 1 1 1	
4					
2		Oliver to the same of the same	- Total	***************************************	
May19/22	Aug29/22	Dec16/22	Jan13/23	Apr11/23	Jul18/23
	sity @ 1	L00°C			









Laboratory Sample No. Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0831193 : 05905246 : 10566602

Received Diagnosed

: 24 Jul 2023 : 26 Jul 2023 Diagnostician : Wes Davis

Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

Contact: MIKE WYATT mwyatt@traderconstruction.com

TRADER CONSTRUCTION CO.

T: (252)633-1399 F: (252)638-4871

PO DRAWER 1578

NEW BERN, NC

US 28563

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)

Report Id: TRANEW [WUSCAR] 05905246 (Generated: 07/26/2023 08:49:45) Rev: 1

Contact/Location: MIKE WYATT - TRANEW