

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



FREIGHTLINER BUS 12417 (S/N 4VZGCJAA64CG73236)

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

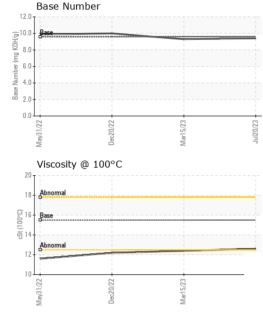
Fluid Condition

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)		May202	M _{m/} 2022 D _{m2} 2022 M _{m2} 2023 Jui2023					
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		WC0831198	WC0791030	WC0755056		
Sample Date		Client Info		20 Jul 2023	15 Mar 2023	20 Dec 2022		
Machine Age	days	Client Info		0	0	0		
Oil Age	days	Client Info		126	85	203		
Oil Changed		Client Info		Changed	Changed	Changed		
Sample Status				NORMAL	ATTENTION	ATTENTION		
CONTAMINATIO	Ν	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	3	2	5		
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1		
Nickel	ppm	ASTM D5185m	>2	0	0	<1		
Titanium	ppm	ASTM D5185m	>2	0	0	0		
Silver	ppm	ASTM D5185m	>2	0	0	0		
Aluminum	ppm	ASTM D5185m	>25	<1	<1	<1		
Lead	ppm	ASTM D5185m	>40	0	<1	1		
Copper	ppm	ASTM D5185m	>330	0	<1	<1		
Tin	ppm	ASTM D5185m	>15	<1	<1	<1		
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	1	17	13	8		
Barium	ppm	ASTM D5185m	1	<1	0	0		
Molybdenum	ppm	ASTM D5185m	60	61	60	58		
Manganese	ppm	ASTM D5185m	1	<1	<1	<1		
Magnesium	ppm	ASTM D5185m	1010	1001	922	938		
Calcium	ppm	ASTM D5185m	1070	1141	1142	1081		
Phosphorus	ppm	ASTM D5185m	1150	1109	1044	1002		
Zinc	ppm	ASTM D5185m	1270	1329	1248	1242		
Sulfur	ppm	ASTM D5185m	2060	4042	3798	3529		
CONTAMINANTS	3	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	3	3	2		
Sodium	ppm	ASTM D5185m		<1	<1	1		
Potassium	ppm	ASTM D5185m	>20	0	<1	0		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.2		
Nitration	Abs/cm	*ASTM D7624		5.4	4.7	5.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.6	17.3	18.3		
FLUID DEGRADATION method limit/base current history1 history2								
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.3	12.4	13.7		
Base Number (BN)	mg KOH/g	ASTM D2896		9.4	9.3	10.0		
Dage (Marrider (DIV)	mg Norry	ACTIVIDE000	0.0	U. T	0.0	10.0		

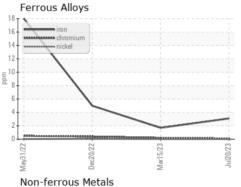


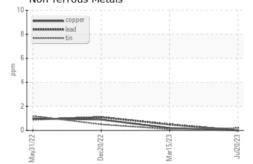
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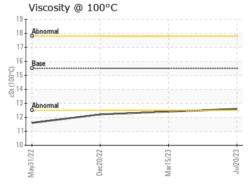


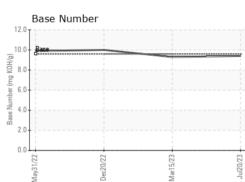
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	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 PROPERT	IFS.	method	limit/base	current	history1	history2
TEGID I NOI EITI	ILO	memou	IIIIII/Dase	Current	riistory i	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	15.5	12.6	<u></u> 12.4	▲ 12.2

GRAPHS













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

: 10566580

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0831198 : 05905224

Received Diagnosed

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

Test Package : CONST (Additional Tests: TBN)

* - 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)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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