

## **OIL ANALYSIS REPORT**

#### Sample Rating Trend



NORMAL



# FREIGHTLINER 2-142

Component

**Front Diesel Engine** 

**UNOCAL 76 GUARDOL QLT 15W40 (44 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

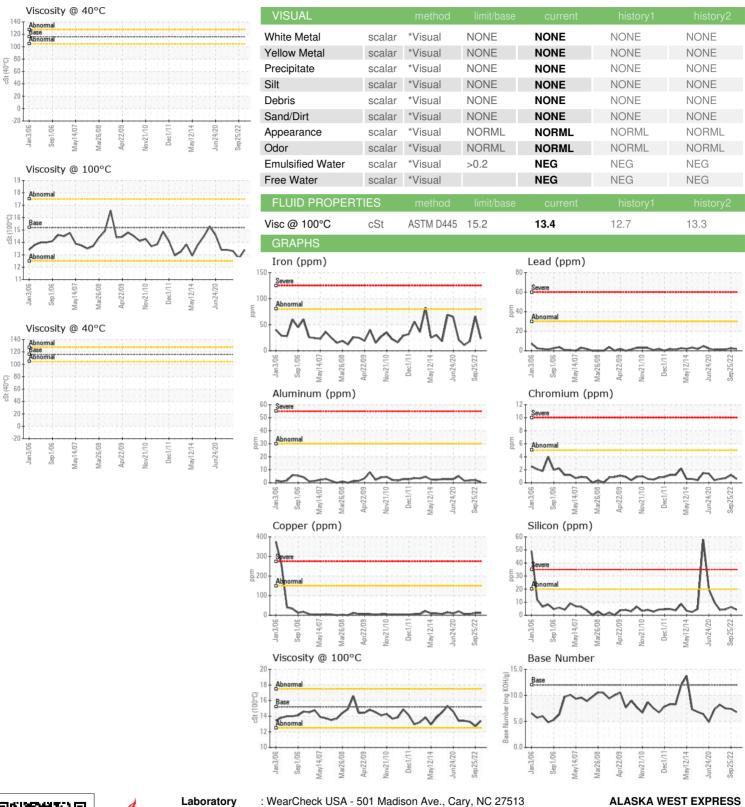
### **Fluid Condition**

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

TS)  #2006 Sup2006 Mar2007 Mar2009 Rev2010 Dev2011 Mar2010 Sup2012 Sup2022						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0337166	WC0723818	WC0676370
Sample Date		Client Info		17 Jan 2023	25 Sep 2022	17 May 2022
Machine Age	hrs	Client Info		5719	0	361102
Oil Age	hrs	Client Info		1040	0	4105
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	N	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 METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	23	66	18
Chromium	ppm	ASTM D5185m	>5	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>30	<1	2	2
Lead	ppm	ASTM D5185m	>30	2	3	1
Copper	ppm	ASTM D5185m	>150	11	11	6
Tin	ppm	ASTM D5185m	>5	<1	1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		47	77	128
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		7	33	58
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		593	639	631
Calcium	ppm	ASTM D5185m		1177	1357	1440
Phosphorus	ppm	ASTM D5185m		610	788	712
Zinc	ppm	ASTM D5185m	1300	743	905	816
Sulfur	ppm	ASTM D5185m		2753	3417	2857
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	4	6	4
Sodium	ppm	ASTM D5185m		6	3	4
Potassium	ppm	ASTM D5185m	>20	11	3	12
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.4	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.2	10.8	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	22.3	20.9
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	17.8	16.5
Base Number (BN)	mg KOH/g	ASTM D2896	12.0	6.8	7.4	7.5



## OIL ANALYSIS REPORT







Certificate L2367

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

: WC0337166 : 05746926 : 10306530

Received : 23 Jan 2023 Diagnosed : 25 Jan 2023

Diagnostician : Jonathan Hester

Test Package : MOB 1 (Additional Tests: KV40, TBN) 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) **ALASKA WEST EXPRESS** 

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