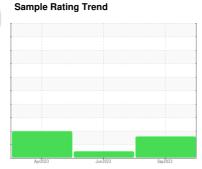


# **OIL ANALYSIS REPORT**

# [CONHER] FREIGHTLINER LAMO - #194 Freightliner

**Diesel Engine** 

Volvo Mineral 15W40 CI-4 (45 LTR)





### **DIAGNOSIS**

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: Volvo Mineral CI-4 plus 15W40)

#### Wear

All component wear rates are normal.

#### Contamination

There is a moderate amount of particulates present 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.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info	mmebasc	KL0012830	KL0012384	KL0012340
Sample Number		Client Info		16 Sep 2023	30 Jun 2023	19 Apr 2023
Machine Age	kms	Client Info		77741	46089	23491
Oil Age	kms	Client Info		64250	22598	10000
Oil Changed	Tarro	Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	NORMAL	ATTENTION
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel	Ā	WC Method	>3.0		<1.0	<1.0
Glycol		WC Method	>3.0	<1.0 NEG	<1.0 NEG	<1.0 NEG
Giycoi		VVC IVIELLIOU		NEG		NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	39	26	24
Chromium	ppm	ASTM D5185m	>6	2	1	1
Nickel	ppm	ASTM D5185m	>3	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>50	9	5	4
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	7	6	3
Tin	ppm	ASTM D5185m	>6	<1	<1	0
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		17	25	51
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		54	52	56
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		740	788	810
Calcium	ppm	ASTM D5185m		2001	1818	1479
Phosphorus	ppm	ASTM D5185m		1044	1038	1026
Zinc	ppm	ASTM D5185m		1381	1330	1227
Sulfur	ppm	ASTM D5185m		3278	3772	3894
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	13	9	10
Sodium	ppm	ASTM D5185m		3	2	2
Potassium	ppm	ASTM D5185m	>20	2	4	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8	0.5	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.3	8.5	5.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	20.8	18.7



## OIL ANALYSIS REPORT







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

: KL0012830 : 05964785

: 10671336

Received Diagnosed Diagnostician

: 29 Sep 2023 : 03 Oct 2023 : Angela Borella

NAVOJOA. MX Contact: ANDRES MONROY

andres.monroy@cmoderna.com

Test Package : MOB 2 ( Additional Tests: PrtCount ) Certificate L2367 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)

T: F: