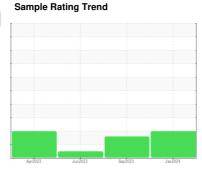


OIL ANALYSIS REPORT

[CONHER] FREIGHTLINER LAMO - #194 Freightliner

Diesel Engine

Volvo Mineral 15W40 CI-4 (45 LTR)





DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. (Customer Sample Comment: Fluid: Volvi mineral 15W40)

Wear

All component wear rates are normal.

Contamination

There is a high 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	ΙΔΤΙΩΝ	method	limit/base	current	history1	history2
	IATION		IIIIIIIIIIIIII			
Sample Number		Client Info		KL0013461	KL0012830	KL0012384
Sample Date	lena a	Client Info		19 Jan 2024	16 Sep 2023	30 Jun 2023
Machine Age	kms	Client Info		119580	77741	46089
Oil Age	kms	Client Info		106089	64250	22598
Oil Changed		Client Info		Not Changd ABNORMAL	Not Changd ATTENTION	Not Changd NORMAL
Sample Status				ADNONWAL	ATTENTION	
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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	>200	17	39	26
Chromium	ppm	ASTM D5185m	>6	<1	2	1
Nickel	ppm	ASTM D5185m	>3	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>50	2	9	5
Lead	ppm	ASTM D5185m	>10	5	0	0
Copper	ppm	ASTM D5185m	>50	4	7	6
Tin	ppm	ASTM D5185m	>6	0	<1	<1
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		6	17	25
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		2	54	52
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		16	740	788
Calcium	ppm	ASTM D5185m		2430	2001	1818
Phosphorus	ppm	ASTM D5185m		000	1011	1038
•	рр	ASTIVI DSTOSIII		920	1044	1000
Zinc	ppm	ASTM D5185m		1138	1381	1330
•						
Zinc	ppm	ASTM D5185m	limit/base	1138	1381	1330
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	limit/base >50	1138 3591 current 8	1381 3278 history1	1330 3772
Zinc Sulfur CONTAMINANTS	ppm ppm	ASTM D5185m ASTM D5185m method		1138 3591 current	1381 3278 history1	1330 3772 history2
Zinc Sulfur CONTAMINANTS Silicon	ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m	>50	1138 3591 current 8	1381 3278 history1	1330 3772 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	>50	1138 3591 current 8 3	1381 3278 history1 13	1330 3772 history2 9
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	>50 >20	1138 3591 current 8 3 6	1381 3278 history1 13 3 2	1330 3772 history2 9 2 4
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	>50 >20 limit/base >3	1138 3591 current 8 3 6	1381 3278 history1 13 3 2 history1	1330 3772 history2 9 2 4 history2



OIL ANALYSIS REPORT





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

: KL0013461

: 06074989

Recieved : 10857080

Diagnosed Diagnostician

: 30 Jan 2024 : 02 Feb 2024

: Jonathan Hester

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: