

OIL ANALYSIS REPORT

Sample Rating Trend

Sample nating Treitu

NORMAL



FREIGHTLINER M-2106 8006 (S/N 1FVACWD25LHLT8661)

Component

Diesel Engine
Fluid

NOT GIVEN (--- GAL)

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

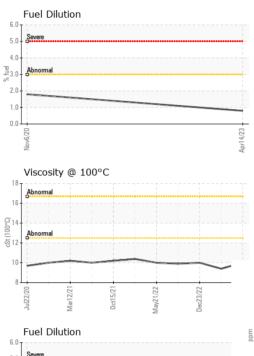
Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0837187	WC0797667	WC0713079
Sample Date		Client Info		10 Aug 2023	14 Apr 2023	23 Dec 2022
Machine Age	mls	Client Info		67015	60236	54366
Oil Age	mls	Client Info		607	5870	5982
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	13	11	11
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	8	4	8
Lead	ppm	ASTM D5185m	>30	0	0	<1
Copper	ppm	ASTM D5185m	>30	0	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<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		63	59	69
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		267	244	247
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		508	397	443
Calcium	ppm	ASTM D5185m		1299	1122	1355
Phosphorus	ppm	ASTM D5185m		682	590	627
Zinc	ppm	ASTM D5185m		870	741	806
Sulfur	ppm	ASTM D5185m		2672	1991	2151
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	6	7	6
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	5	5
Fuel	%	ASTM D3524	>3.0	<1.0	0.8	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	5.9	5.9	5.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	14.8	15.3	14.6
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	8.3	8.1	8.0
Base Number (BN)	mg KOH/g	ASTM D2896		5.0	5.8	6.0



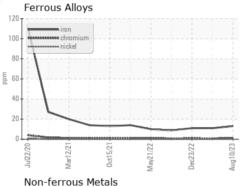
OIL ANALYSIS REPORT

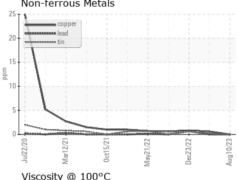


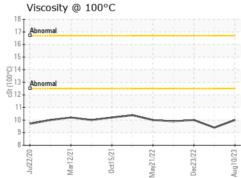
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

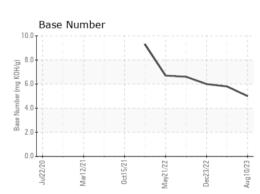
FLUID PROPERTIES		method	ilmivbase		nistory i	nistoryz	
Visc @ 100°C	cSt	ASTM D445		10.0	9.4	10.0	

GRAPHS











2.0

0.0



Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

: WC0837187 : 05925274 : 10605221

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 15 Aug 2023 : 16 Aug 2023 Diagnostician : Doug Bogart

Test Package: CONST (Additional Tests: FuelDilution, 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)

TRADER CONSTRUCTION CO.

PO DRAWER 1578 NEW BERN, NC US 28563

Contact: MIKE WYATT mwyatt@traderconstruction.com

T: (252)633-1399

F: (252)638-4871 Contact/Location: MIKE WYATT - TRANEW