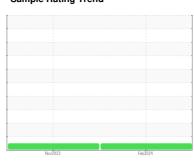


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



823030 PETERBILT 320

Component

Diesel Engine

TIER ONE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Sampled only)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

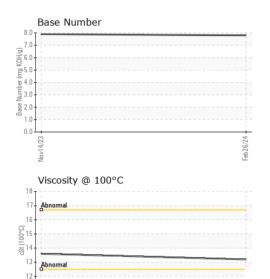
Fluid Condition

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

			Nov2023	Feb2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0061431	GFL0102206	
Sample Date		Client Info		26 Feb 2024	14 Nov 2023	
Machine Age	hrs	Client Info		8490	0	
Oil Age	hrs	Client Info		337	600	
Oil Changed		Client Info		Not Changd	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	11	11	
Chromium	ppm	ASTM D5185m	>4	<1	<1	
Nickel	ppm	ASTM D5185m	>2	0	0	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>25	2	1	
Lead	ppm	ASTM D5185m	>45	1	4	
Copper	ppm	ASTM D5185m	>85	1	1	
Tin	ppm	ASTM D5185m	>4	<1	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		15	6	
Barium	ppm	ASTM D5185m		0	<1	
Molybdenum	ppm	ASTM D5185m		57	58	
Manganese	ppm	ASTM D5185m		<1	0	
Magnesium	ppm	ASTM D5185m		871	880	
Calcium	ppm	ASTM D5185m		1061	1083	
Phosphorus	ppm	ASTM D5185m		1015	950	
Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m		1226 2972	1202 3069	
CONTAMINAN		method	limit/base	current	history1	history2
					· ·	,
Silicon Sodium	ppm	ASTM D5185m ASTM D5185m	>30	5 3	2	
Potassium	ppm	ASTM D5185m	>20	ა 1	3	
INFRA-RED	PP	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	8.0	8.0	
Sulfation	Abs/.1mm	*ASTM D7024	>30	19.7	20.6	
FLUID DEGRAI		method	limit/base	current	history1	history2
					•	,
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	16.7	
Base Number (BN)	mg KOH/g	ASTM D2896		7.8	7.9	



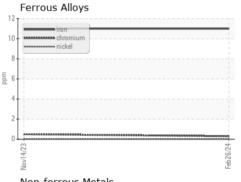
OIL ANALYSIS REPORT



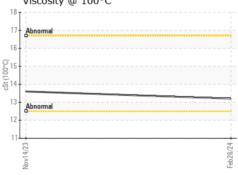
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	

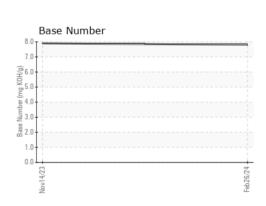
FLUID FNOF	ENTIES	method		HISTOLAL	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	13.2	13.6	

GRAPHS



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	Nov14/23	







Certificate L2367

Laboratory Sample No.

: GFL0061431 Lab Number : 06103590 Unique Number : 10901820 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Feb 2024

Tested : 29 Feb 2024 Diagnosed : 01 Mar 2024 - Don Baldridge

GFL Environmental - 642- Grand Rapids Hauling

5826 Alden Nash Ave SE Lowell, MI US 49331

Contact: Josh Arnett joshuaarnett@gflenv.com

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: