

# **OIL ANALYSIS REPORT**

### Sample Rating Trend



Machine Id

# 826048 PETERBILT 320

Diesel Engine

TIER 15W40 (--- GAL)

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

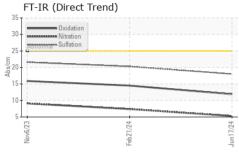
## **Fluid Condition**

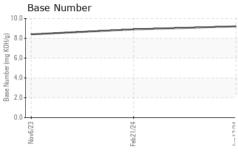
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

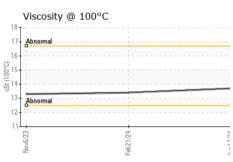
		No	v2023	Feb 2024 Jun 20.	24	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0115278	GFL0102216	GFL0061461
Sample Date		Client Info		17 Jun 2024	21 Feb 2024	06 Nov 2023
Machine Age	hrs	Client Info		22126	20792	20873
Oil Age	hrs	Client Info		0	312	600
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ION	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	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	8	14	26
Chromium	ppm	ASTM D5185m	>4	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	0
Lead	ppm	ASTM D5185m	>45	<1	<1	2
Copper	ppm	ASTM D5185m		<1	<1	0
Tin	ppm	ASTM D5185m	>4	0	0	0
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		22	10	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		55	53	57
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		827	931	993
Calcium	ppm	ASTM D5185m		1087	1132	1204
Phosphorus Zinc	ppm	ASTM D5185m		991	970 1219	1155 1380
Sulfur	ppm	ASTM D5185m ASTM D5185m		1197 3149	3213	3321
			lii+/l			
CONTAMINAN		method	limit/base	current	history1	history2
Silicon Sodium	ppm		>30	3	4	3
Potassium	ppm	ASTM D5185m ASTM D5185m	>20	2	4	<1
	ppm					
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	1.1	1.5
Nitration	Abs/cm	*ASTM D7624		5.3	7.4	9.1
Sulfation	Abs/.1mm	*ASTM D7415		18.0	20.3	21.6
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.9	14.5	15.9
Base Number (BN)	mg KOH/g	ASTM D2896		9.2	8.9	8.4



# **OIL ANALYSIS REPORT**



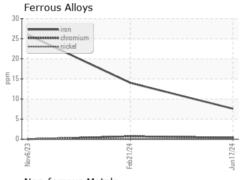


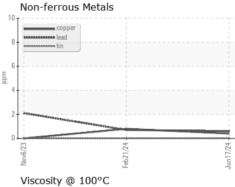


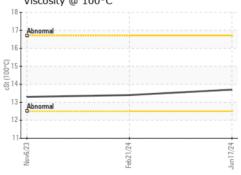
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

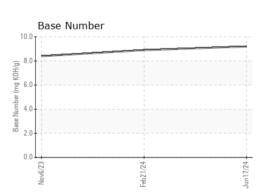
FLUID PROPERTIES		method			history2	
Visc @ 100°C	cSt	ASTM D445	13.7	13.4	13.3	

## **GRAPHS**













Certificate 12367

Laboratory

Sample No. Lab Number : 06216461

: GFL0115278 Unique Number : 11089325 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Jun 2024 **Tested** : 22 Jun 2024

Diagnosed : 22 Jun 2024 - Wes Davis

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: