

## **OIL ANALYSIS REPORT**

Sample Rating Trend

### NORMAL

Machine Id

# 825073 PETERBILT 320

Diesel Engine

### TIER ONE 15W40 (--- 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.

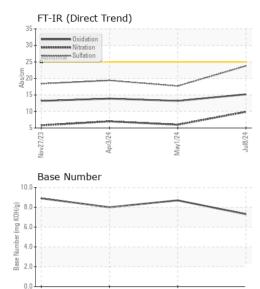
#### Fluid Condition

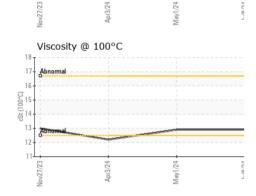
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sample Number Client Info GFL0115232 GFL0115242 GFL01   Sample Date Client Info 08 Jul 2024 01 May 2024 03 Apr   Machine Age hrs Client Info 21544 21190 20985	story2
	02228
Machine Age hrs Client Info 21544 21190 20985	2024
Oil Age hrs Client Info 77 0 13	
Oil Changed Client Info Changed Changed Changed	ed
Sample Status NORMAL NORMAL NORM	AL
CONTAMINATION method limit/base current history1 his	story2
Fuel WC Method >5 <1.0	
Water WC Method >0.2 NEG NEG NEG	à
Glycol WC Method NEG NEG NEG	à
WEAR METALS method limit/base current history1 his	story2
Iron ppm ASTM D5185m >110 51 4 13	
Chromium ppm ASTM D5185m >4 2 <1	
Nickel ppm ASTM D5185m >2 0 <1	
Titanium ppm ASTM D5185m <1	
Silver ppm ASTM D5185m >2 0 <1	
Aluminum ppm ASTM D5185m >25 <1	
Lead ppm ASTM D5185m >45 8 3 0	
Copper ppm ASTM D5185m >85 1 <1	
Tin ppm ASTM D5185m >4 0 2 0	
Vanadium ppm ASTM D5185m 0 0 0	
Cadmium ppm ASTM D5185m 0 2 0	
ADDITIVES method limit/base current history1 his	story2
Boron ppm ASTM D5185m 6 7 13	
Barium ppm ASTM D5185m 0 0 0	
Molybdenum ppm ASTM D5185m 54 51 51	
Manganese ppm ASTM D5185m <1	
Magnesium ppm ASTM D5185m 815 980 822	
0 1 1 I I I I I I I I I I I I I I I I I	6
Calcium ppm ASTM D5185m 1155 1182 1076	
Phosphorus ppm ASTM D5185m 986 1162 979	-
Phosphorus ppm ASTM D5185m 986 1162 979   Zinc ppm ASTM D5185m 1154 1374 1115	
Phosphorus ppm ASTM D5185m 986 1162 979   Zinc ppm ASTM D5185m 1154 1374 1114   Sulfur ppm ASTM D5185m 3134 4351 3554	
Phosphorus ppm ASTM D5185m 986 1162 979   Zinc ppm ASTM D5185m 1154 1374 1119   Sulfur ppm ASTM D5185m 3134 4351 3559	
Phosphorus ppm ASTM D5185m 986 1162 979   Zinc ppm ASTM D5185m 1154 1374 1111   Sulfur ppm ASTM D5185m 3134 4351 3559   CONTAMINANTS method limit/base current history1 hist   Silicon ppm ASTM D5185m >30 4 3 3	9
Phosphorus ppm ASTM D5185m 986 1162 979   Zinc ppm ASTM D5185m 1154 1374 1114   Sulfur ppm ASTM D5185m 3134 4351 3559   CONTAMINANTS method limit/base current history1 hist   Silicon ppm ASTM D5185m >30 4 3 3   Sodium ppm ASTM D5185m >30 5 1 1	9
Phosphorus ppm ASTM D5185m 986 1162 979   Zinc ppm ASTM D5185m 1154 1374 1111   Sulfur ppm ASTM D5185m 3134 4351 3559   CONTAMINANTS method limit/base current history1 hist   Silicon ppm ASTM D5185m >30 4 3 3	9
Phosphorus ppm ASTM D5185m 986 1162 979   Zinc ppm ASTM D5185m 1154 1374 1114   Sulfur ppm ASTM D5185m 3134 4351 3558   CONTAMINANTS method limit/base current history1 his   Silicon ppm ASTM D5185m >30 4 3 3   Sodium ppm ASTM D5185m >20 <1 4 0	9
Phosphorus ppm ASTM D5185m 986 1162 979   Zinc ppm ASTM D5185m 1154 1374 1114   Sulfur ppm ASTM D5185m 3134 4351 3553   CONTAMINANTS method limit/base current history1 history1   Silicon ppm ASTM D5185m >30 4 3 3   Sodium ppm ASTM D5185m >20 <1	9 story2
Phosphorus ppm ASTM D5185m 986 1162 979   Zinc ppm ASTM D5185m 1154 1374 1114   Sulfur ppm ASTM D5185m 3134 4351 3553   CONTAMINANTS method limit/base current history1 his   Silicon ppm ASTM D5185m >30 4 3 3   Sodium ppm ASTM D5185m >30 4 3 3   Sodium ppm ASTM D5185m >30 4 3 3   Sodium ppm ASTM D5185m >20 <1	9 story2
Phosphorus ppm ASTM D5185m 986 1162 979   Zinc ppm ASTM D5185m 1154 1374 1114   Sulfur ppm ASTM D5185m 3134 4351 3553   CONTAMINANTS method limit/base current history1 his   Silicon ppm ASTM D5185m >30 4 3 3   Sodium ppm ASTM D5185m >30 4 3 3   Potassium ppm ASTM D5185m >20 <1	9 story2 story2
Phosphorus ppm ASTM D5185m 986 1162 979   Zinc ppm ASTM D5185m 1154 1374 1114   Sulfur ppm ASTM D5185m 3134 4351 3553   CONTAMINANTS method limit/base current history1 his   Silicon ppm ASTM D5185m >30 4 3 3 3   Sodium ppm ASTM D5185m >30 4 3 3 3 3   Sodium ppm ASTM D5185m >20 <1	9 story2 story2
Phosphorus ppm ASTM D5185m 986 1162 979   Zinc ppm ASTM D5185m 1154 1374 1114   Sulfur ppm ASTM D5185m 3134 4351 3553   CONTAMINANTS method limit/base current history1 his   Silicon ppm ASTM D5185m >30 4 3 3 3   Sodium ppm ASTM D5185m >30 4 3 <th>9 story2 story2 story2</th>	9 story2 story2 story2



## **OIL ANALYSIS REPORT**

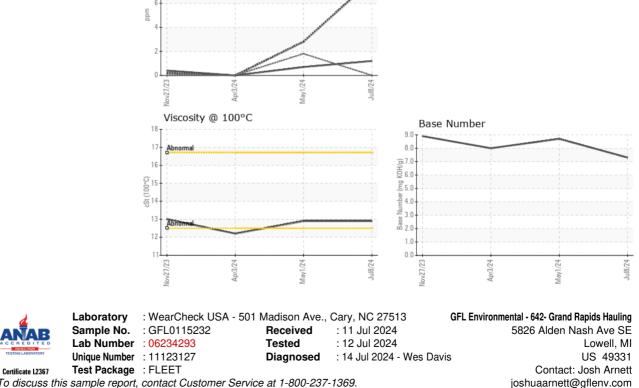




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		12.9	12.9	12.2
GRAPHS						
Ferrous Alloys						
iron 1						
50 - chromium			1			
+0						
30 -		/				
20		/				



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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)

Submitted By: See also GFL642B - Jessica Shearer

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