

### **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL

Machine Id

# PETERBILT 369 DT19

Component Diesel Engine Fluid SHELL 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.

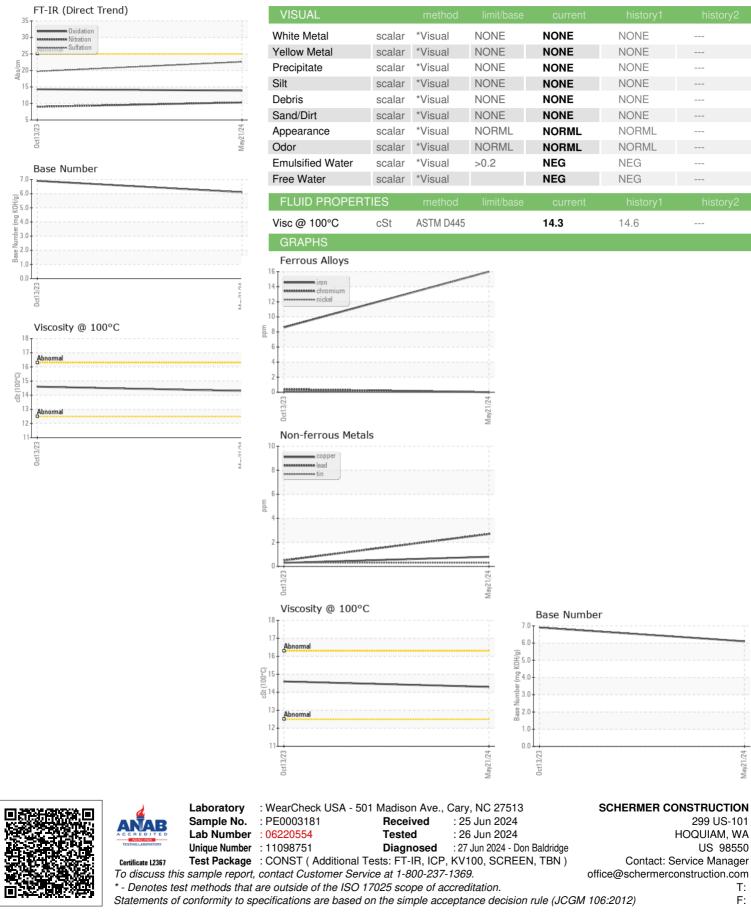
#### Fluid Condition

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

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PE0003181	PE0002256	
Sample Date		Client Info		21 May 2024	13 Oct 2023	
Machine Age	hrs	Client Info		20722	19853	
Oil Age	hrs	Client Info		516	315	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	٧	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 METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	16	9	
Chromium	ppm	ASTM D5185m	>4	0	<1	
Nickel	ppm	ASTM D5185m	>2	0	<1	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>25	2	2	
Lead	ppm	ASTM D5185m	>45	3	<1	
Copper	ppm	ASTM D5185m	>85	<1	<1	
Tin	ppm	ASTM D5185m	>4	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		8	43	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		4	32	
Manganese	ppm	ASTM D5185m		<1	0	
Magnesium	ppm	ASTM D5185m		43	180	
Calcium	ppm	ASTM D5185m		2544	2106	
Phosphorus	ppm	ASTM D5185m		954	1038	
Zinc	ppm	ASTM D5185m		1175	1206	
Sulfur	ppm	ASTM D5185m		4263	4090	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon						
	ppm	ASTM D5185m	>30	8	25	
Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>30 >150	8 1	25 <1	
Sodium Potassium						
	ppm	ASTM D5185m	>150	1	<1	
Potassium	ppm	ASTM D5185m ASTM D5185m	>150 >20	1 4	<1 3	
Potassium INFRA-RED	ppm ppm	ASTM D5185m ASTM D5185m method	>150 >20 limit/base	1 4 current	<1 3 history1	  history2
Potassium INFRA-RED Soot %	ppm ppm %	ASTM D5185m ASTM D5185m method *ASTM D7844	>150 >20 limit/base >3	1 4 current 0.7	<1 3 history1 0.4	  history2 
Potassium INFRA-RED Soot % Nitration	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	>150 >20 limit/base >3 >20	1 4 current 0.7 10.3	<1 3 history1 0.4 9.0	 history2 
Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7824 *ASTM D7624 method	>150 >20 limit/base >3 >20 >30	1 4 current 0.7 10.3 22.6	<1 3 history1 0.4 9.0 19.7	 history2  



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Contact/Location: Service Manager - SCHHOQ