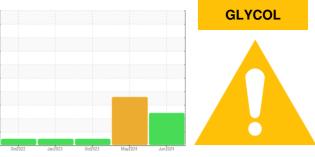


### **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# PETERBILT 567 DT37

Component Diesel Engine Fluid SHELL ROTELLA T3 15W40 (--- GAL)

#### DIAGNOSIS

#### Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

Sodium and/or potassium levels are high. Fuel content negligible.

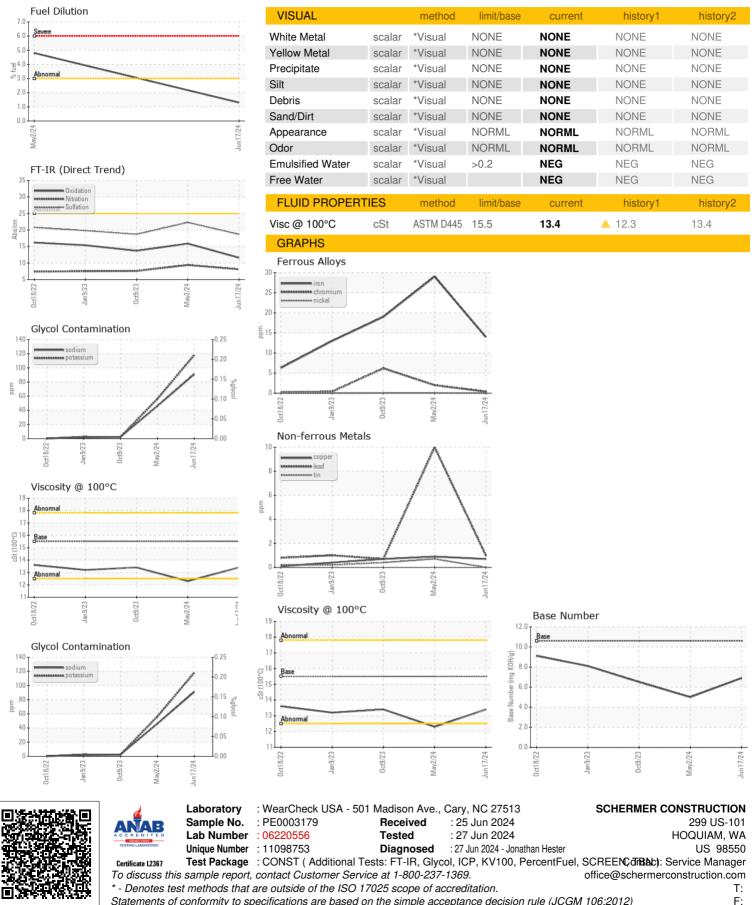
#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PE0003179	PE0003177	PE0002262
Sample Date		Client Info		17 Jun 2024	02 May 2024	09 Oct 2023
Machine Age	hrs	Client Info		11930	11706	10785
Oil Age	hrs	Client Info		224	523	364
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	14	29	19
Chromium	ppm	ASTM D5185m	>20	<1	2	6
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	3	4	4
Lead	ppm	ASTM D5185m	>40	1	10	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	10	4	8	46
Barium	ppm	ASTM D5185m	0	0	0	3
Molybdenum	ppm	ASTM D5185m	10	15	13	30
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	10	24	61	172
Calcium	ppm	ASTM D5185m	2600	2390	2215	1855
Phosphorus	ppm	ASTM D5185m	1050	907	865	866
Zinc	ppm	ASTM D5185m	1250	1095	1107	1045
Sulfur	ppm	ASTM D5185m	3900	4182	3693	3032
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	7	10
Sodium	ppm	ASTM D5185m		<u> </u>	46	2
Potassium	ppm	ASTM D5185m	>20	<b>A</b> 118	56	2
Fuel	%	ASTM D3524	>3.0	1.3	4.8	<1.0
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.3	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.1	9.4	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	22.3	18.7
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.6	15.9	13.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.6	6.9	5.0	6.5



## **OIL ANALYSIS REPORT**



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Contact/Location: Service Manager - SCHHOQ