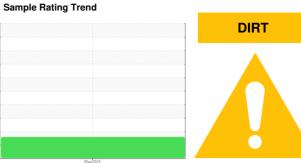


# **OIL ANALYSIS REPORT**



Machine Id

# **PETERBILT 2418**

**Diesel Engine** 

**DIESEL ENGINE OIL SAE 5W30 (44 QTS)** 

### DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

## Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Elemental level of silicon (Si) above normal indicating ingress of seal material.

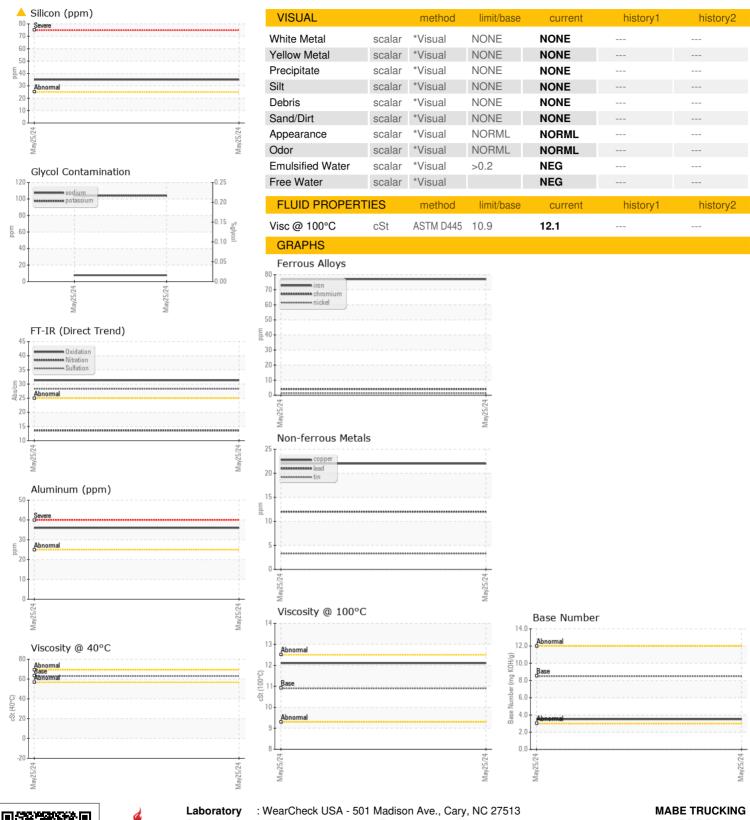
### **Fluid Condition**

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

				May2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		HRE0000214		
Sample Date		Client Info		25 May 2024		
Machine Age	mls	Client Info		105492		
Oil Age	mls	Client Info		50000		
Oil Changed	11110	Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel		WC Method		<1.0	Thotoly 1	1110101172
Water		WC Method		VEG		
Glycol		WC Method	<i>&gt;</i> 0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	77		
Chromium	ppm	ASTM D5185m	>20	4		
Nickel	ppm	ASTM D5185m	>2	1		
Titanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>25	36		
Lead	ppm	ASTM D5185m	>40	12		
Copper	ppm	ASTM D5185m	>330	22		
Tin	ppm	ASTM D5185m	>15	3		
Vanadium Cadmium	ppm ppm	ASTM D5185m		2		
	ррпп					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	22		
Barium	ppm	ASTM D5185m	10	4		
Molybdenum	ppm	ASTM D5185m	100	62		
Manganese	ppm	ASTM D5185m		6		
Magnesium	ppm	ASTM D5185m	450	549		
Calcium	ppm	ASTM D5185m	3000	1655		
Phosphorus	ppm	ASTM D5185m	1150	929		
Zinc	ppm	ASTM D5185m	1350	1188		
Sulfur	ppm	ASTM D5185m	4250	2698		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>△</b> 35		
Sodium	ppm	ASTM D5185m		8		
Potassium	ppm	ASTM D5185m	>20	104		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6		
Nitration	Abs/cm	*ASTM D7624	>20	13.6		
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.3		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	31.3		
Base Number (BN)	mg KOH/g	ASTM D2896		3.5		
. ,	0					



## **OIL ANALYSIS REPORT**





Report Id: MABEDE [WUSCAR] 06209521 (Generated: 06/17/2024 12:57:02) Rev: 1

Sample No.

: HRE0000214

Lab Number : 06209521 Unique Number : 11076982

Received : 13 Jun 2024 **Tested** : 17 Jun 2024

Diagnosed : 17 Jun 2024 - Don Baldridge

PO BOX 1081 EDEN, NC US 27289 Contact: MAINTENANCE

Test Package : FLEET ( Additional Tests: KV40 ) Certificate 12367 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.

maintenancemanager@mabetrucking.com T:

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

Contact/Location: MAINTENANCE ? - MABEDE

F: (336)635-1791