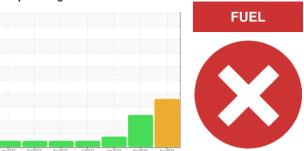


PROBLEM SUMMARY

Sample Rating Trend



Machine Id

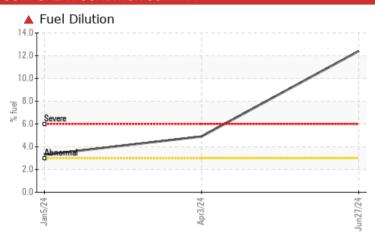
PETERBILT 8464531

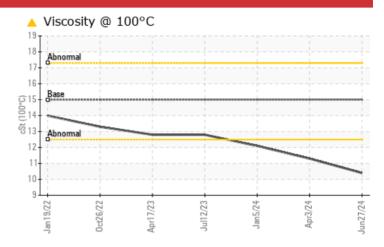
Diesel Engine

Fluid

MOBIL DELVAC 1 5W40 (46 GAL)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	ABNORMAL	MARGINAL		
Fuel	%	ASTM D3524	>3.0	12.4	4.9	▲ 3.3		
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	1.7	▲ 3.7	7.4		
Visc @ 100°C	cSt	ASTM D445	15.0	10.4	△ 11.3	12.1		

Customer Id: PAC7006 Sample No.: RPL0021908 Lab Number: 06234470 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Sean Felton +1 919-379-4092 sfelton@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.		
Resample			?	We recommend an early resample to monitor this condition.		
Check Fuel/injector System			?	We advise that you check the fuel injection system.		

HISTORICAL DIAGNOSIS

03 Apr 2024 Diag: Jonathan Hester

DEGRADATION



We advise that you check the fuel injection system. The oil is near the end of it's useful service life, recommend schedule an oil change. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN level is low.



FUEL



05 Jan 2024 Diag: Wes Davis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



NORMAL



12 Jul 2023 Diag: Don Baldridge

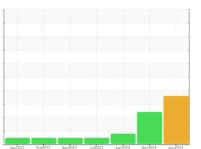
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id

PETERBILT 8464531

Diesel Engine

MOBIL DELVAC 1 5W40 (46 GAL)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of fuel present in the oil.

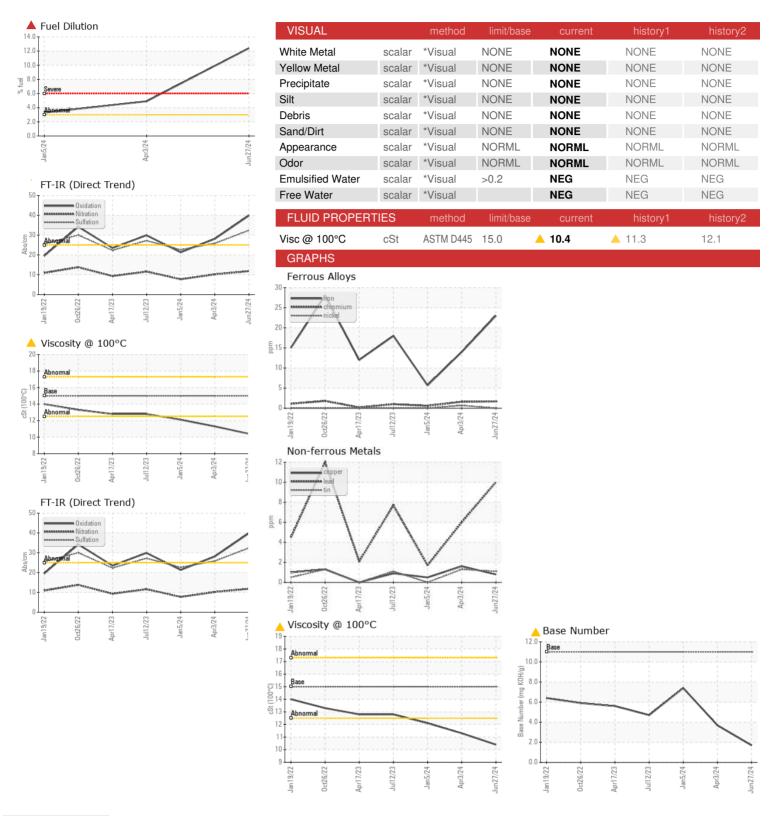
Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN level is low.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RPL0021908	RPL0019367	RPL0017409
Sample Date		Client Info		27 Jun 2024	03 Apr 2024	05 Jan 2024
Machine Age	mls	Client Info		162316	154910	148185
Oil Age	mls	Client Info		19624	6725	5493
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				SEVERE	ABNORMAL	MARGINAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>165	23	14	6
Chromium	ppm	ASTM D5185m	>5	2	2	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	14	12	3
Lead	ppm	ASTM D5185m	>150	10	6	2
Copper	ppm	ASTM D5185m	>90	<1	2	<1
Tin	ppm	ASTM D5185m	>5	1	1	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES						
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	method ASTM D5185m	limit/base	current 6	history1	history2
	ppm					
Boron Barium	ppm	ASTM D5185m	291	6	1	1
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	291	6 0 56	1 2	1
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m	291	6 0	1 2 58	1 0 55
Boron Barium Molybdenum	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	291 0.0 8.0	6 0 56 0	1 2 58 <1	1 0 55 0
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	291 0.0 8.0 624	6 0 56 0 839	1 2 58 <1 867	1 0 55 0 920
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	291 0.0 8.0 624 2158	6 0 56 0 839 985	1 2 58 <1 867 1032	1 0 55 0 920 994
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	291 0.0 8.0 624 2158 1132	6 0 56 0 839 985 870	1 2 58 <1 867 1032 955	1 0 55 0 920 994 1014
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	291 0.0 8.0 624 2158 1132 1300	6 0 56 0 839 985 870 1157	1 2 58 <1 867 1032 955 1141	1 0 55 0 920 994 1014 1188
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	291 0.0 8.0 624 2158 1132 1300 3616	6 0 56 0 839 985 870 1157 3313	1 2 58 <1 867 1032 955 1141 3172	1 0 55 0 920 994 1014 1188 3107
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	291 0.0 8.0 624 2158 1132 1300 3616 limit/base	6 0 56 0 839 985 870 1157 3313	1 2 58 <1 867 1032 955 1141 3172 history1	1 0 55 0 920 994 1014 1188 3107 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	291 0.0 8.0 624 2158 1132 1300 3616 limit/base	6 0 56 0 839 985 870 1157 3313 current	1 2 58 <1 867 1032 955 1141 3172 history1 5	1 0 55 0 920 994 1014 1188 3107 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	291 0.0 8.0 624 2158 1132 1300 3616 limit/base	6 0 56 0 839 985 870 1157 3313 current 6 2	1 2 58 <1 867 1032 955 1141 3172 history1 5 0	1 0 55 0 920 994 1014 1188 3107 history2 3
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm	ASTM D5185m	291 0.0 8.0 624 2158 1132 1300 3616 limit/base >35 >20	6 0 56 0 839 985 870 1157 3313 current 6 2 42	1 2 58 <1 867 1032 955 1141 3172 history1 5 0 38	1 0 55 0 920 994 1014 1188 3107 history2 3 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel	ppm	ASTM D5185m	291 0.0 8.0 624 2158 1132 1300 3616 limit/base >35 >20 >3.0	6 0 56 0 839 985 870 1157 3313 current 6 2 42 12.4	1 2 58 <1 867 1032 955 1141 3172 history1 5 0 38 4.9	1 0 55 0 920 994 1014 1188 3107 history2 3 <1 7
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D3524	291 0.0 8.0 624 2158 1132 1300 3616 limit/base >35 >20 >3.0 limit/base	6 0 56 0 839 985 870 1157 3313 current 6 2 42 ▲ 12.4 current 0.5	1 2 58 <1 867 1032 955 1141 3172 history1 5 0 38 ▲ 4.9 history1	1 0 55 0 920 994 1014 1188 3107 history2 3 <1 7 △ 3.3
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm	ASTM D5185m	291 0.0 8.0 624 2158 1132 1300 3616 limit/base >35 >20 >3.0 limit/base	6 0 56 0 839 985 870 1157 3313 current 6 2 42 ▲ 12.4 current	1 2 58 <1 867 1032 955 1141 3172 history1 5 0 38 4.9 history1 0.4	1 0 55 0 920 994 1014 1188 3107 history2 3 <1 7
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm	ASTM D5185m ASTM D7624	291 0.0 8.0 624 2158 1132 1300 3616 limit/base >35 >20 >3.0 limit/base >7.5 >20	6 0 56 0 839 985 870 1157 3313 current 6 2 42 ▲ 12.4 current 0.5 11.8	1 2 58 <1 867 1032 955 1141 3172 history1 5 0 38 4.9 history1 0.4 10.2	1 0 55 0 920 994 1014 1188 3107 history2 3 <1 7 △ 3.3 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm	ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7624 *ASTM D7844	291 0.0 8.0 624 2158 1132 1300 3616 limit/base >35 >20 >3.0 limit/base >7.5 >20 >30 limit/base	6 0 56 0 839 985 870 1157 3313 current 6 2 42 ▲ 12.4 current 0.5 11.8 32.4 current	1 2 58 <1 867 1032 955 1141 3172 history1 5 0 38 4.9 history1 0.4 10.2 25.8 history1	1 0 55 0 920 994 1014 1188 3107 history2 3 <1 7 ▲ 3.3 history2 0.2 7.7 22.6 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7624	291 0.0 8.0 624 2158 1132 1300 3616 limit/base >35 >20 >3.0 limit/base >7.5 >20 >30	6 0 56 0 839 985 870 1157 3313 current 6 2 42 ▲ 12.4 current 0.5 11.8 32.4	1 2 58 <1 867 1032 955 1141 3172 history1 5 0 38 ▲ 4.9 history1 0.4 10.2 25.8	1 0 55 0 920 994 1014 1188 3107 history2 3 <1 7 △ 3.3 history2 0.2 7.7 22.6



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: RPL0021908 Lab Number : 06234470 Unique Number : 11123304

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 12 Jul 2024 : 16 Jul 2024 Diagnosed Test Package : FLEET (Additional Tests: PercentFuel)

: 16 Jul 2024 - Sean Felton

Pico Rivera, CA US 90660 Contact: GERARDO CARROLA carrolag@rushenterprises.com

RTL PACLEASE - 7006 - Pico Rivera

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:

7837 Telegraph Rd