

## Machine Id **PETERBILT 846-5055** Component **Diesel Engine** Fluid **MOBIL DELVAC 1 5W40 (44 QTS)**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		RPL0017586	RPL0015522	RPL0013465
	Sample Date		Client Info		26 Jan 2024	11 Oct 2023	18 Jul 2023
at the next service interval to monitor.	Machine Age	mls	Client Info		23703	16617	9290
	Oil Age	mls	Client Info		23703	16617	9290
	Filter Age	mls	Client Info		23703	16617	9290
	Oil Changed		Client Info		Changed	Filtered	Filtered
	Filter Changed		Client Info		Changed	Changed	Not Changd
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR Metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185m		36	28	19
	Chromium	ppm	ASTM D5185m	>4	2	2	1
	Nickel	ppm	ASTM D5185m	>2	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m	>25	11	9	8
	Lead	ppm	ASTM D5185m	>45	9	6	0
	Copper	ppm	ASTM D5185m	>85	34	30	24
	Tin	ppm	ASTM D5185m	>4	3	2	2
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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CONTAMINATION	Silicon	ppm	ASTM D5185m		37	39	36
Sodium and/or potassium levels remain high. Test for glycol is negative.	Potassium	ppm	ASTM D5185m		<b>▲</b> 65	<b>▲</b> 49	39
	Fuel		WC Method		<1.0	<1.0	▲ 3.8
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	*ASTM D2982	-	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.2	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	10.9	9.5	8.7
	Sulfation	Abs/.1mm	*ASTM D7415		24.8	21.4	19.2
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	4	5
	Boron	ppm	ASTM D5185m	291	28	41	72
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		5	3	0
	Molybdenum	ppm	ASTM D5185m		13	12	13
	Manganese	ppm	ASTM D5185m	0.0	6	5	5
	Magnesium	ppm	ASTM D5185m	624	686	746	738
	Calcium		ASTM D5185m		1246	1328	1285
	Phosphorus	ppm	ASTM D5185m		698	659	▲ 706
	Zinc	ppm ppm		1300	781	846	▲ 816
	Sulfur	ppm	ASTM D5185m		3204	2922	3299
	Oxidation		*ASTM D5185111		23.8	19.4	16.6
	Oxidation	Abs/.1mm	ASTIVI D/414	>20	23.0	19.4	10.0

Base Number (BN) mg KOH/g ASTM D2896 11.0

ASTM D445 15.0

Visc @ 100°C cSt

5.3

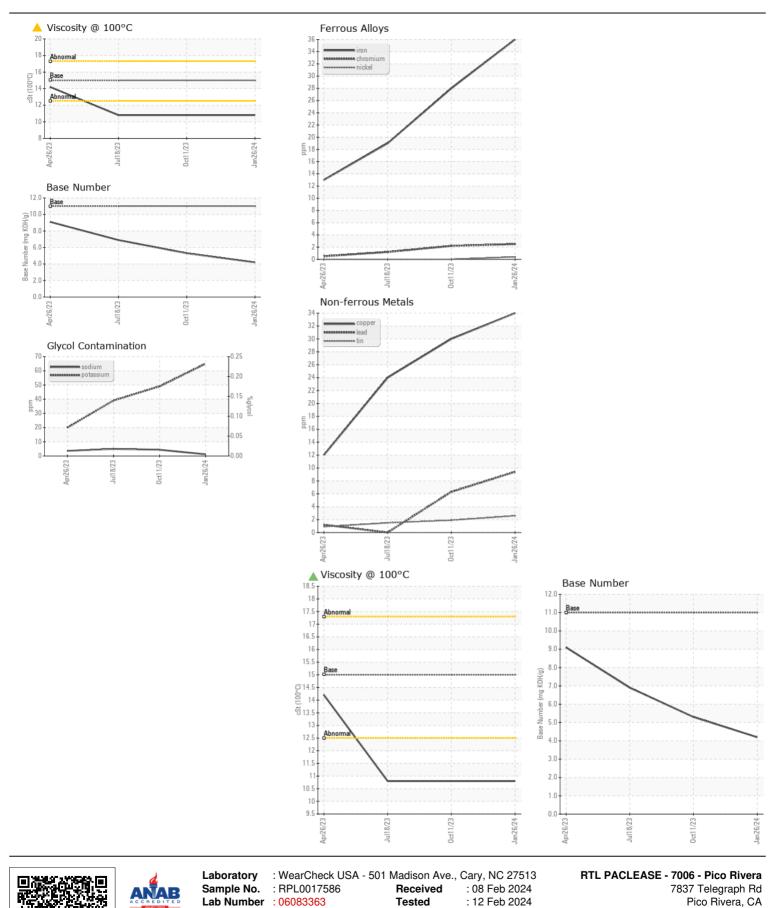
10.8

4.2

**10.8** 

6.9

10.8



Unique Number : 10870808 : 12 Feb 2024 - Jonathan Hester Diagnosed Test Package : FLEET ( Additional Tests: Glycol ) Contact: Rudy Trevizo Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. TrevizoR@RushEnterprises.Com \* - 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: TECHNICIAN ACCOUNT

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