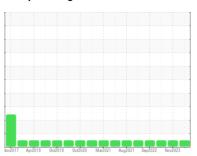


## **OIL ANALYSIS REPORT**

### Sample Rating Trend



NORMAL



# PETERBILT 6626

Component

**Diesel Engine** 

**DIESEL ENGINE OIL SAE 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

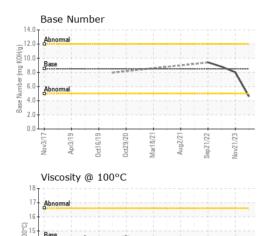
### **Fluid Condition**

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

	6v/2017 Apr2019 0x2019 0x2020 Mar2021 Apr2021 Sept2022 Nov2023									
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2				
Sample Number		Client Info		WC0871012	WC0871020	WC0744195				
Sample Date		Client Info		25 Jan 2024	21 Nov 2023	28 Nov 2022				
Machine Age	hrs	Client Info		450	450	160087				
Oil Age	hrs	Client Info		450	450	450				
Oil Changed		Client Info		Changed	N/A	N/A				
Sample Status				NORMAL	NORMAL	NORMAL				
CONTAMINATIO	N	method	limit/base	current	history1	history2				
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0				
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	>120	29	40	6				
Chromium	ppm	ASTM D5185m	>20	2	2	<1				
Nickel	ppm	ASTM D5185m	>5	0	<1	0				
Titanium	ppm	ASTM D5185m	>2	0	<1	0				
Silver	ppm	ASTM D5185m	>2	0	0	0				
Aluminum	ppm	ASTM D5185m	>20	8	3	1				
Lead	ppm	ASTM D5185m	>40	0	<1	1				
Copper	ppm	ASTM D5185m	>330	<1	68	<1				
Tin	ppm	ASTM D5185m	>15	<1	<1	0				
Vanadium	ppm	ASTM D5185m		0	0	0				
Cadmium	ppm	ASTM D5185m		0	<1	0				
ADDITIVES		method	limit/base	current	history1	history2				
Boron	ppm	ASTM D5185m	250	6	<1	14				
Barium	ppm	ASTM D5185m	10	0	0	0				
Molybdenum	ppm	ASTM D5185m	100	53	53	61				
Manganese	ppm	ASTM D5185m		<1	<1	<1				
Magnesium	ppm	ASTM D5185m	450	806	796	926				
Calcium	ppm	ASTM D5185m	3000	1065	952	1133				
Phosphorus	ppm	ASTM D5185m	1150	939	943	1030				
Zinc	ppm		1350	1057	1138	1199				
Sulfur	ppm	ASTM D5185m	4250	2801	2643	3571				
CONTAMINANT	S	method	limit/base	current	history1	history2				
Silicon	ppm	ASTM D5185m	>25	4	8	4				
Sodium	ppm	ASTM D5185m	>158	1	10	2				
Potassium	ppm	ASTM D5185m	>20	23	3	0				
INFRA-RED		method	limit/base	current	history1	history2				
Soot %	%	*ASTM D7844	>4	0.6	0.2	0.5				
Nitration	Abs/cm	*ASTM D7624	>20	13.5	7.2	11.6				
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.5	18.5	23.4				
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2				
Oxidation	Abs/.1mm	*ASTM D7414	>25	29.4	14.1	19.1				
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	4.6	8.0	8.8				
,										



## **OIL ANALYSIS REPORT**



VISUAL		method				history2			
White Metal scale		*Visual	NONE	NONE	NONE	NONE			
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE			
Precipitate scala		*Visual	NONE NONE		NONE	NONE			
Silt	scalar	*Visual	NONE	NONE	NONE	NONE			
Debris	Debris scalar		NONE	NONE	NONE	NONE			
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE			
Appearance scal		*Visual	NORML	NORML	NORML	NORML			
Odor scala		*Visual	NORML NORML		NORML	NORML			
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG			
Free Water	scalar	*Visual		NEG	NEG	NEG			
FLUID PROPERT	method	limit/base	current	history1	history2				
Visc @ 100°C	cSt	ASTM D445	14.4	14.1	13.7	14.1			

VISC @ 100°C		(	:51	ASI	IVI D445	445 14.4 14.1		. 1		13.7			14.1				
GRAPHS																	
300		(ppn	n)						100 T	Lea	d (pp	m)					
250	Seven	е							80 +	Sever	е						
200 E 150									60 <b>-</b>								
톱 150 100	Abno	rmal							읍 40	Abno	rmal			-		-	-
50 0								~	20								
U	Nov3/17	Apr3/19	0ct16/19	0ct29/20	Mar18/21	Aug2/21	Sep21/22 -	Nov21/23		Nov3/17	Apr3/19 -	0ct16/19	0ct29/20	Mar18/21-	Aug2/21-	Sep21/22 -	Nov21/23
					Mar	An	Sep2	Nov2						Mar	An	Sep.2	Nov2
50	Aluminum (ppm)								Chromium (ppm)								
40	00000								40	Sever	e	-	-				
E 30	Abno	mal							H 30+	Abno	rmal						
10	Auto	IIIa						-	20 - 10 -	Abno	iiiiai						-
0		_				_			[°]	_							
	Nov3/17	Apr3/19	Oct16/19	Oct29/20	Mar18/21	Aug2/21	Sep21/22	Nov21/23		Nov3/17	Apr3/19	0ct16/19	Oct29/20	Mar18/21	Aug2/21	Sep21/22	Nov21/23
		per (		Ŏ	Σ	4	S	Š			on (p		Ŏ	Σ	4	S	Š
400	Severe		ppiii)						80 T	Sever		piii)					
300	20110								60	1							
튎 200	1	1							툂 40 -	1							
100									20 -	Abbo	mai						
0	1	6	6	02	21-	21	- 22	2	0		¥ 61	- 6	02	Z1#	Z1+LZ	22	
	Nov3/17	Apr3/19 -	0ct16/19	Oct29/20	Mar18/21	Aug2/21	Sep21/22	Nov21/23		Nov3/17	Apr3/19	Oct16/19	Oct29/20	Mar18/21	Aug2/21	Sep21/22	Nov21/23
	Visc	osity	@ 10							Bas	e Nur	nber					_
18	Abno	rmal							(B) 15.0 T	Abno	rmal						
	Base								9 10.0 <del>-</del>	Base				P. P.		In set makes	
(2.001) ts	Abno	rmal			$\sim$				mper 5.0+	Abno	rmal						
12									Base Number (mg KOH/g)								
10	Nov3/17	Apr3/19	0ct16/19	9/20	8/21	Aug2/21	1/22	1/23	0.0 1	Nov3/17	Apr3/19	0ct16/19	9/20	8/21	Aug2/21	1/22	1/23
	Nov	Apr	Octl	Oct29/20	Mar18/21	Aug	Sep21/22	Nov21/23		Nov	Apr	Octl	Oct29/20	Mar18/21	Aug	Sep21/22	Nov21/23





Report Id: INTCHE [WUSCAR] 06098187 (Generated: 02/26/2024 11:35:46) Rev: 1

Laboratory Sample No.

Lab Number : 06098187 Unique Number: 10896417

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0871012 Received

**Tested** Diagnosed Test Package: MOB 1 (Additional Tests: TBN)

: 23 Feb 2024 : 25 Feb 2024

: 26 Feb 2024 - Don Baldridge

89 BLACK MEADOW RD CHESTER, NY

US 10918 Contact: ROB CLARKE rclarke@interstatewaste.com

**INTERSTATE WASTE-CHESTER** 

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) F: (845)572-3301

Contact/Location: ROB CLARKE - INTCHE

T: