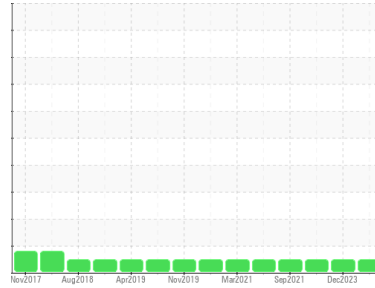




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
PETERBILT 6623

Component
Diesel Engine

Fluid
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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC06027469	WC0871021	WC0694222
Sample Date	Client Info		06 Dec 2023	06 Dec 2023	24 Oct 2022
Machine Age	hrs	Client Info	0	450	173789
Oil Age	hrs	Client Info	0	450	450
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<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 >110	4	10	18
Chromium	ppm	ASTM D5185m >4	0	<1	<1
Nickel	ppm	ASTM D5185m >2	0	<1	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >25	1	2	2
Lead	ppm	ASTM D5185m >45	0	0	3
Copper	ppm	ASTM D5185m >85	<1	<1	2
Tin	ppm	ASTM D5185m >4	0	0	<1
Antimony	ppm	ASTM D5185m	---	---	---
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	<1	0	5
Barium	ppm	ASTM D5185m 10	0	0	<1
Molybdenum	ppm	ASTM D5185m 100	56	59	63
Manganese	ppm	ASTM D5185m	<1	0	<1
Magnesium	ppm	ASTM D5185m 450	934	938	926
Calcium	ppm	ASTM D5185m 3000	1095	1056	1180
Phosphorus	ppm	ASTM D5185m 1150	1028	1057	1007
Zinc	ppm	ASTM D5185m 1350	1243	1239	1250
Sulfur	ppm	ASTM D5185m 4250	3054	3382	3303

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >30	4	2	6
Sodium	ppm	ASTM D5185m >158	3	0	0
Potassium	ppm	ASTM D5185m >20	<1	1	7

INFRA-RED

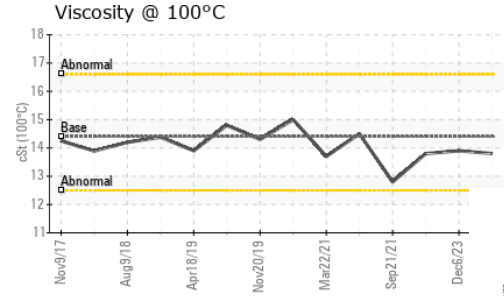
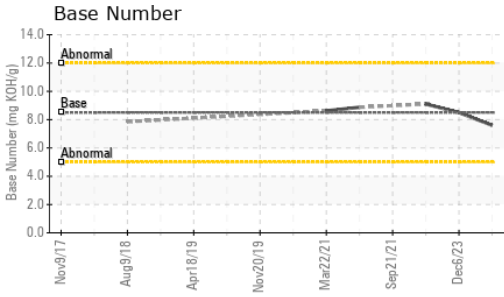
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.3	0.2	0.5
Nitration	Abs/cm	*ASTM D7624 >20	9.0	6.2	10.4
Sulfation	Abs/.1mm	*ASTM D7415 >30	20.3	17.8	23.1

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	16.2	13.5	18.9
Base Number (BN)	mg KOH/g	ASTM D2896 8.5	7.6	8.5	9.1



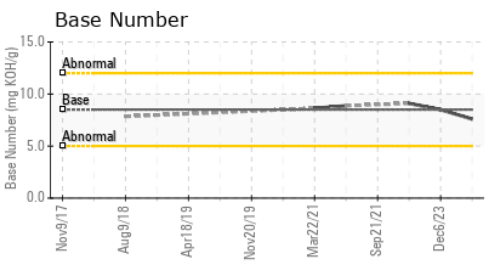
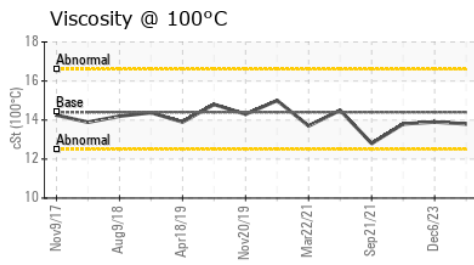
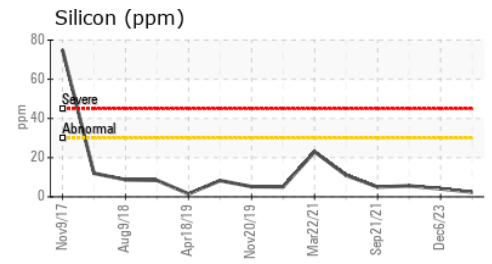
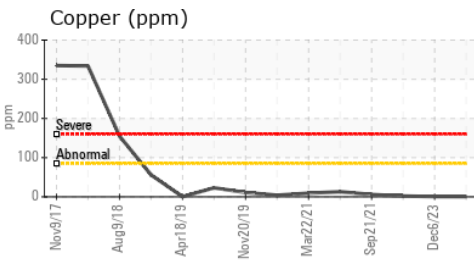
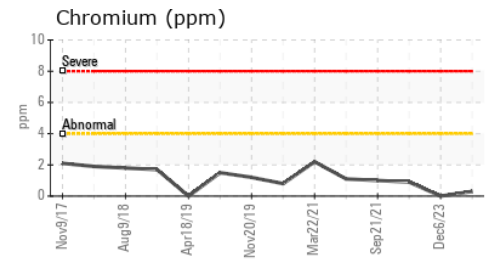
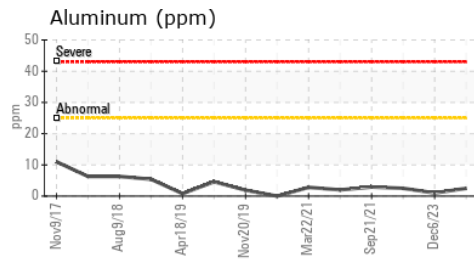
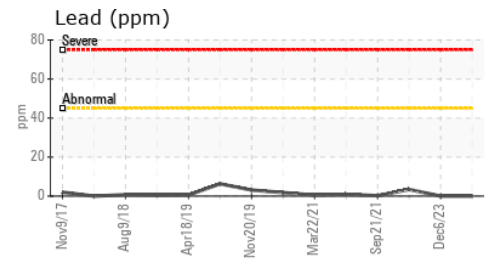
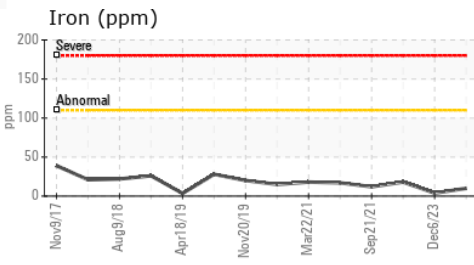
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	14.4	13.8	13.9	13.8

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC06027469 **Received** : 07 Dec 2023
Lab Number : **06027469** **Diagnosed** : 08 Dec 2023
Unique Number : 10777260 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

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 89 BLACK MEADOW RD
 CHESTER, NY
 US 10918
 Contact: ROB CLARKE
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 F: (845)572-3301

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)