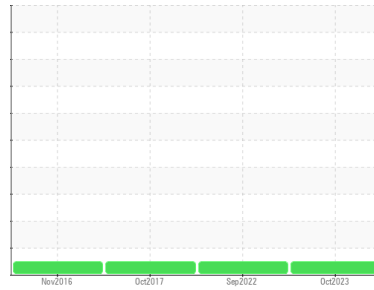




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
NEW CITY TOWER L140779896

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 15W40 (3 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	WC0834368	WC0699425	WCM1384230	
Sample Date	Client Info	02 Oct 2023	26 Sep 2022	24 Oct 2017	
Machine Age	hrs	Client Info	0	153	49
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info	N/A	Changed	Changed	
Sample Status		NORMAL	NORMAL	NORMAL	

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >3.0	<1.0	<1.0	<1.0
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >90	1	<1	3
Chromium	ppm ASTM D5185m >20	0	3	<1
Nickel	ppm ASTM D5185m >2	0	0	<1
Titanium	ppm ASTM D5185m >2	0	0	3
Silver	ppm ASTM D5185m >2	0	0	0
Aluminum	ppm ASTM D5185m >20	2	0	1
Lead	ppm ASTM D5185m >40	0	6	2
Copper	ppm ASTM D5185m >330	2	7	4
Tin	ppm ASTM D5185m >15	0	0	0
Antimony	ppm ASTM D5185m	---	---	12
Vanadium	ppm ASTM D5185m	0	<1	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 250	27	405	4
Barium	ppm ASTM D5185m 10	0	0	0
Molybdenum	ppm ASTM D5185m 100	63	74	60
Manganese	ppm ASTM D5185m	0	<1	<1
Magnesium	ppm ASTM D5185m 450	901	377	988
Calcium	ppm ASTM D5185m 3000	1065	1399	1151
Phosphorus	ppm ASTM D5185m 1150	1037	985	1098
Zinc	ppm ASTM D5185m 1350	1240	1149	1204
Sulfur	ppm ASTM D5185m 4250	3720	3496	3031

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	4	6	6
Sodium	ppm ASTM D5185m >158	2	<1	4
Potassium	ppm ASTM D5185m >20	<1	2	0

INFRA-RED

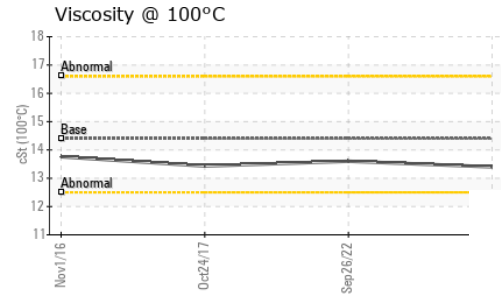
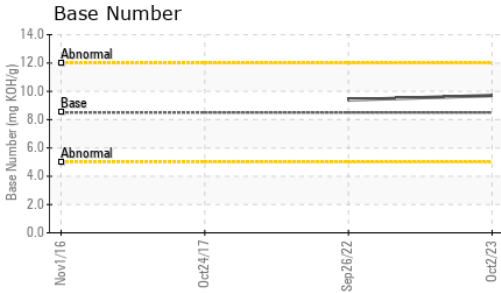
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >6	0	0.1	0
Nitration	Abs/cm *ASTM D7624 >20	4.5	5.0	5.
Sulfation	Abs/.1mm *ASTM D7415 >30	17.5	19.7	15.

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	13.4	13.3	11.
Base Number (BN)	mg KOH/g ASTM D2896 8.5	9.7	9.4	---



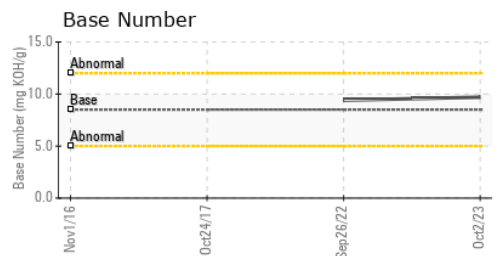
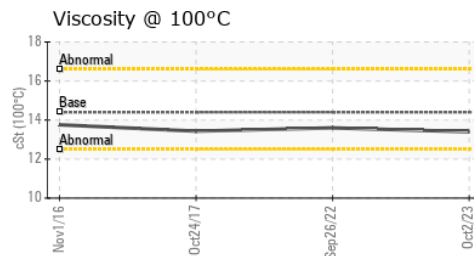
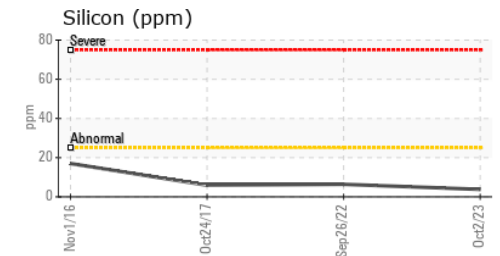
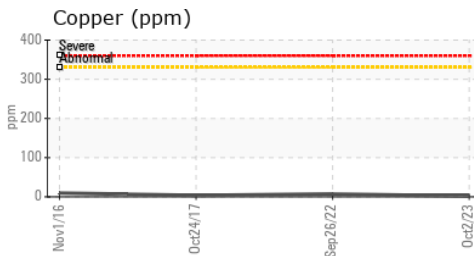
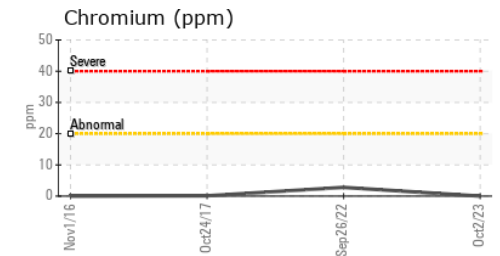
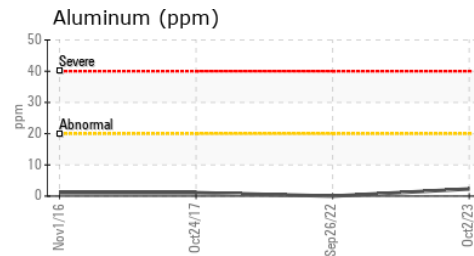
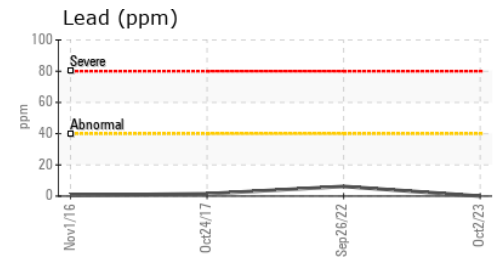
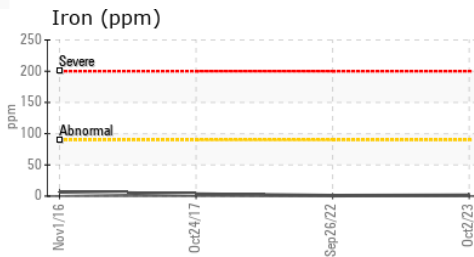
OIL ANALYSIS REPORT



PARAMETER	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	LIGHT	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

PARAMETER	method	limit/base	current	history1	history2
FLUID PROPERTIES					
Visc @ 100°C	cSt	ASTM D445	14.4	13.4	13.6

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0834368 **Received** : 03 Oct 2023
Lab Number : 05967362 **Diagnosed** : 04 Oct 2023
Unique Number : 10673913 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

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)

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