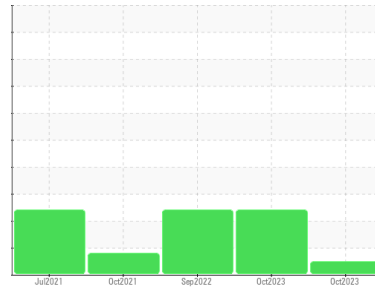




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id

**5028**

Component

**Diesel Engine**

Fluid

**DIESEL ENGINE OIL SAE 15W40 (--- QTS)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

### 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		<b>WC0650924</b>	WC0745208	WC0682069
Sample Date	Client Info		<b>23 Oct 2023</b>	20 Oct 2023	01 Sep 2022
Machine Age	hrs	Client Info	<b>31093</b>	0	27835
Oil Age	hrs	Client Info	<b>150</b>	0	250
Oil Changed	Client Info		<b>Not Chngd</b>	N/A	Changed
Sample Status			<b>NORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>15</b>	49	66
Chromium	ppm	ASTM D5185m >20	<b>0</b>	2	3
Nickel	ppm	ASTM D5185m >4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>9</b>	▲ 32	▲ 38
Lead	ppm	ASTM D5185m >40	<b>0</b>	1	2
Copper	ppm	ASTM D5185m >330	<b>&lt;1</b>	6	100
Tin	ppm	ASTM D5185m >15	<b>0</b>	0	1
Antimony	ppm	ASTM D5185m	<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 250	<b>0</b>	0	3
Barium	ppm	ASTM D5185m 10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 100	<b>58</b>	61	65
Manganese	ppm	ASTM D5185m	<b>0</b>	0	1
Magnesium	ppm	ASTM D5185m 450	<b>906</b>	897	953
Calcium	ppm	ASTM D5185m 3000	<b>1059</b>	1155	1274
Phosphorus	ppm	ASTM D5185m 1150	<b>973</b>	977	998
Zinc	ppm	ASTM D5185m 1350	<b>1175</b>	1230	1275
Sulfur	ppm	ASTM D5185m 4250	<b>2878</b>	2795	3253

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>11</b>	▲ 29	▲ 27
Sodium	ppm	ASTM D5185m >158	<b>4</b>	15	0
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	2

## INFRA-RED

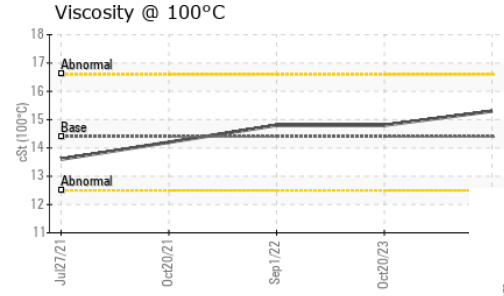
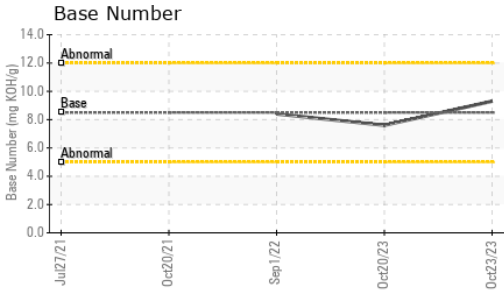
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>1</b>	2.4	2.7
Nitration	Abs/cm	*ASTM D7624 >20	<b>7.3</b>	11.1	12.0
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>19.4</b>	24.4	26.5

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>14.3</b>	17.8	18.8
Base Number (BN)	mg KOH/g	ASTM D2896 8.5	<b>9.3</b>	7.6	8.4



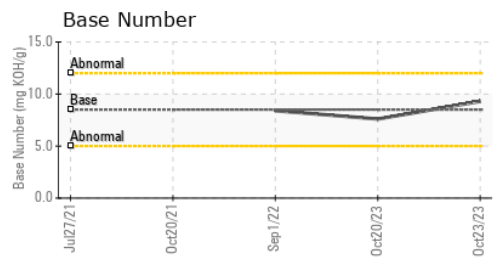
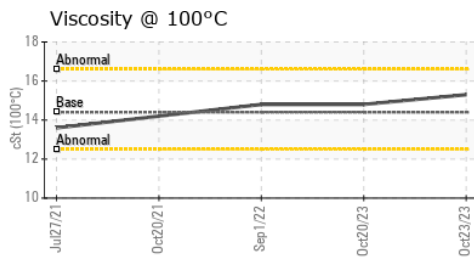
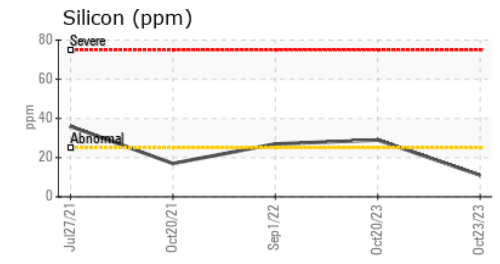
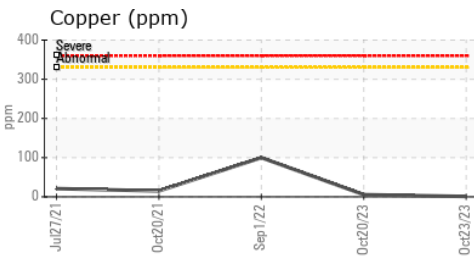
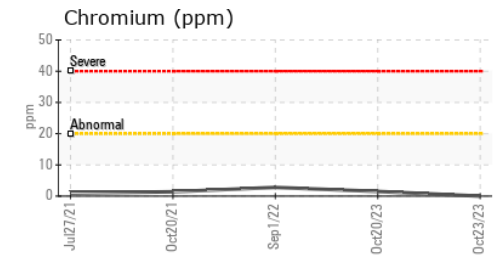
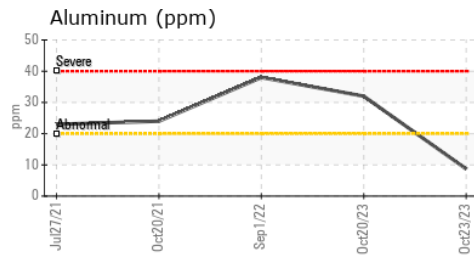
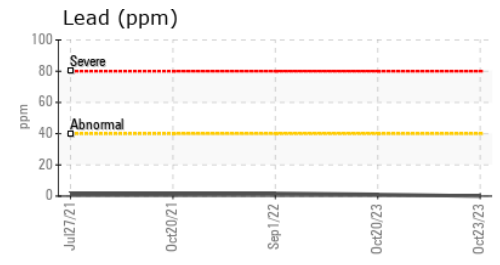
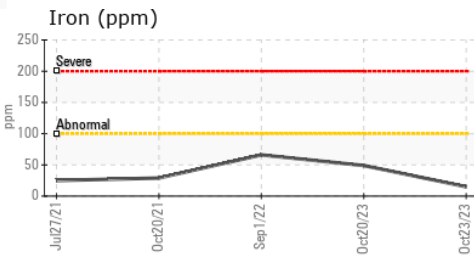
# OIL ANALYSIS REPORT



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	15.3	14.8

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0650924 **Received** : 06 Nov 2023  
**Lab Number** : 05998703 **Diagnosed** : 06 Nov 2023  
**Unique Number** : 10727063 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**INTERSTATE WASTE-CHESTER**  
 89 BLACK MEADOW RD  
 CHESTER, NY  
 US 10918  
 Contact: ROB CLARKE  
 rclarke@interstatewaste.com  
 T:  
 F: (845)572-3301

Certificate L2367  
 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)