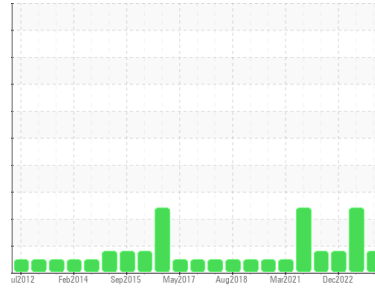




# OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id  
**DODGE M-1**

Component  
**Diesel Engine**

Fluid  
**CHEVRON DELO 400 LE 15W40 (3 GAL)**

### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

#### Fluid Condition

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

### SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0819760</b>	WC0819753	WC0756069
Sample Date	Client Info	<b>09 Aug 2023</b>	11 Jul 2023	08 Dec 2022
Machine Age	mls	Client Info	254181	246583
Oil Age	mls	Client Info	7500	7500
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>MARGINAL</b>	SEVERE	ABNORMAL

### CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	<b>NEG</b>	NEG	NEG

### WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >90	<b>12</b>	63	46
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	2	1
Nickel	ppm	ASTM D5185m >2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>3</b>	8	2
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m >330	<b>&lt;1</b>	1	1
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

### ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	<b>349</b>	201	209
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>115</b>	109	100
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>627</b>	573	549
Calcium	ppm	ASTM D5185m	<b>1503</b>	1371	1416
Phosphorus	ppm	ASTM D5185m 1200	<b>670</b>	595	572
Zinc	ppm	ASTM D5185m 1300	<b>808</b>	725	719
Sulfur	ppm	ASTM D5185m 3200	<b>2780</b>	2497	2058

### CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	<b>6</b>	10	9
Sodium	ppm	ASTM D5185m	<b>2</b>	5	2
Potassium	ppm	ASTM D5185m >20	<b>3</b>	2	0
Fuel	%	ASTM D3524 >3.0	<b>▲ 2.0</b>	◆ 9.8	▲ 5.7

### INFRA-RED

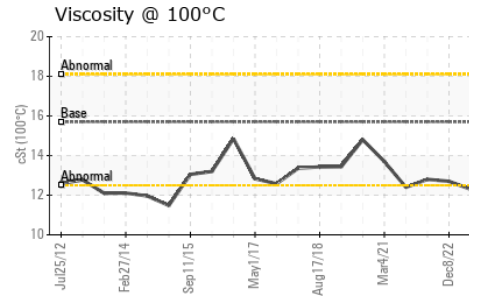
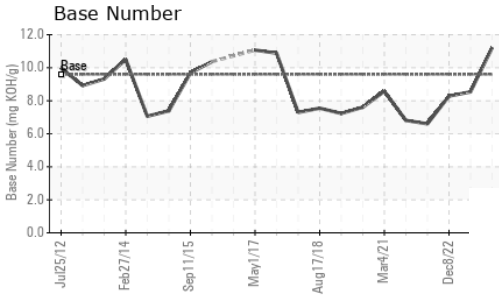
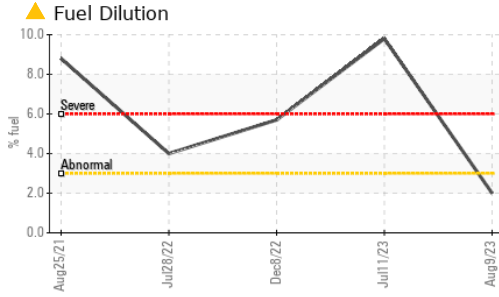
method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844 >6	<b>0.4</b>	2.3	2.2
Nitration	Abs/cm	*ASTM D7624 >20	<b>6.5</b>	15.8	15.5
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>22.9</b>	29.2	30.7

### FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>16.4</b>	25.3	25.6
Base Number (BN)	mg KOH/g	ASTM D2896 9.6	<b>11.21</b>	8.54	8.28



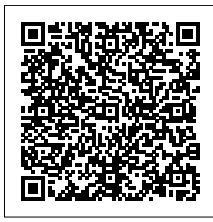
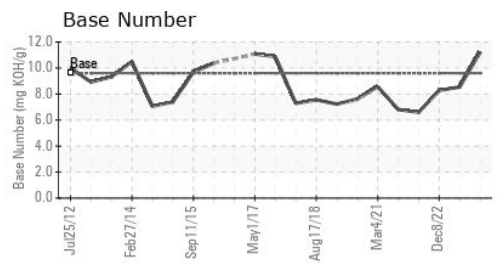
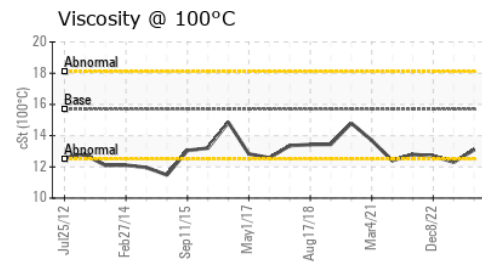
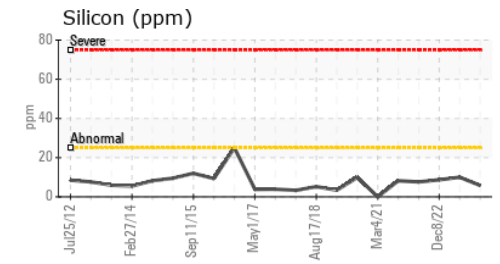
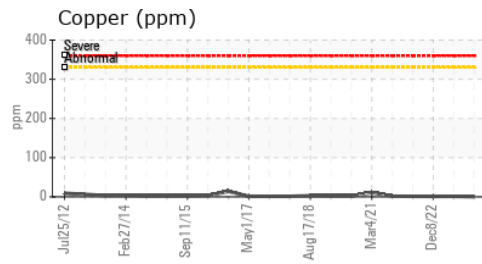
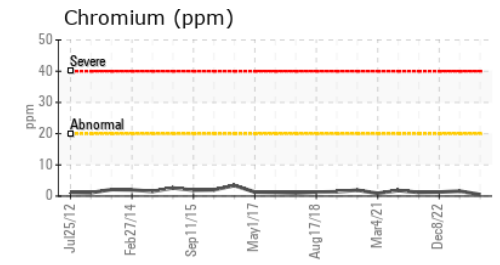
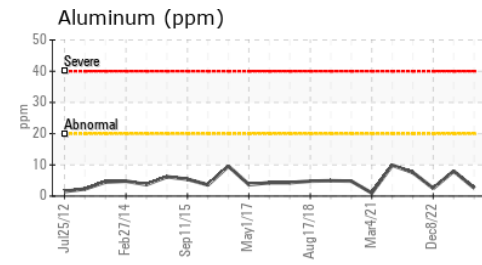
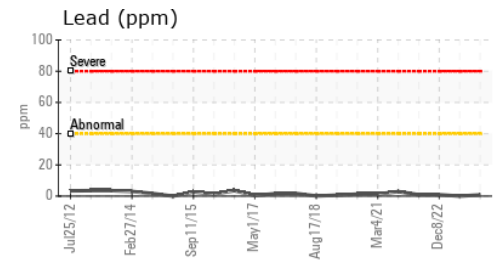
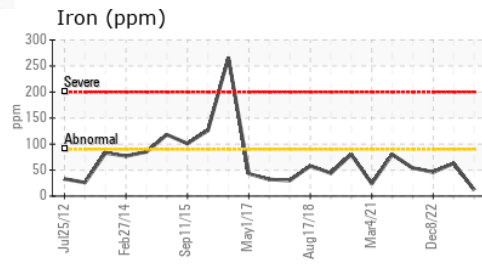
# OIL ANALYSIS REPORT



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	15.7	13.1	▲ 12.3

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0819760 **Received** : 16 Aug 2023  
**Lab Number** : 05926840 **Diagnosed** : 18 Aug 2023  
**Unique Number** : 10606787 **Diagnostician** : Don Baldrige  
**Test Package** : MOB 2 ( Additional Tests: PercentFuel )

**ALLEGHENY DISPOSAL LLC**  
 PO BOX 4  
 GREEN BANK, WV  
 US 24944  
 Contact: SERVICE MANAGER  
 meckmechanic@frontier.com  
 T: (304)456-4541  
 F: (304)456-4540

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)