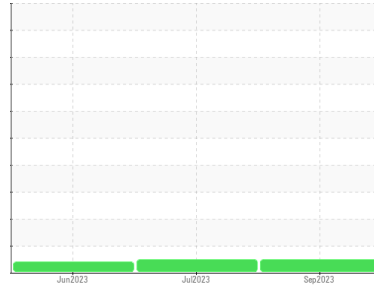




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id

**J-24**

Component

**Diesel Engine**

Fluid

**CHEVRON DELO 400 LE 15W40 (--- GAL)**

### DIAGNOSIS

#### Recommendation

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

#### Wear

Metal levels are typical for a new component breaking in.

#### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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>WC0819746</b>	WC0819754	WC0756088
Sample Date	Client Info			<b>18 Sep 2023</b>	31 Jul 2023	06 Jun 2023
Machine Age	mls	Client Info		<b>46227</b>	31114	13533
Oil Age	mls	Client Info		<b>15000</b>	15000	13533
Oil Changed	Client Info			<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ATTENTION

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	<1.0	0.3
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>18</b>	27	50
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	2
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>16</b>	44	51
Lead	ppm	ASTM D5185m	>40	<b>1</b>	2	3
Copper	ppm	ASTM D5185m	>330	<b>2</b>	5	30
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	1	3
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>259</b>	217	84
Barium	ppm	ASTM D5185m		<b>0</b>	0	8
Molybdenum	ppm	ASTM D5185m		<b>124</b>	113	15
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	2	6
Magnesium	ppm	ASTM D5185m		<b>673</b>	661	973
Calcium	ppm	ASTM D5185m		<b>1575</b>	1600	1805
Phosphorus	ppm	ASTM D5185m	1200	<b>714</b>	693	977
Zinc	ppm	ASTM D5185m	1300	<b>888</b>	840	1158
Sulfur	ppm	ASTM D5185m	3200	<b>2633</b>	2932	4592

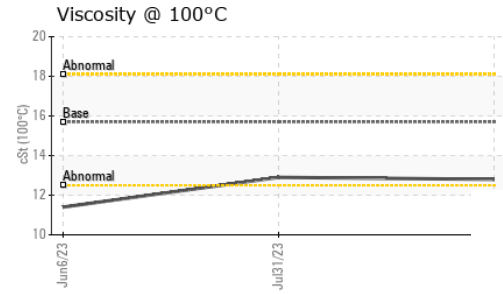
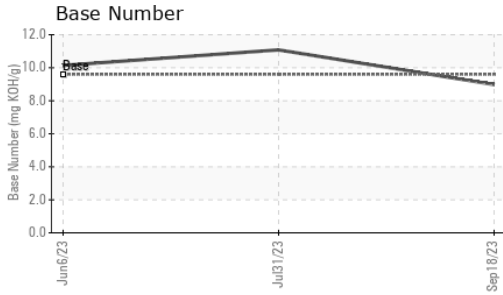
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>13</b>	16	55
Sodium	ppm	ASTM D5185m		<b>2</b>	3	5
Potassium	ppm	ASTM D5185m	>20	<b>55</b>	126	159

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.6</b>	8.0	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.4</b>	23.2	18.9

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.4</b>	16.4	13.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.6	<b>8.98</b>	11.08	10.14



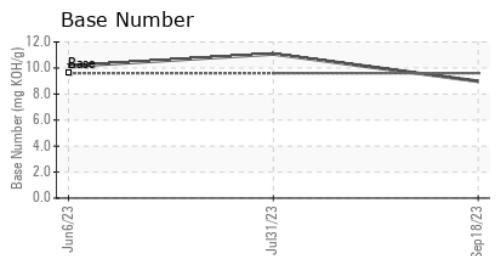
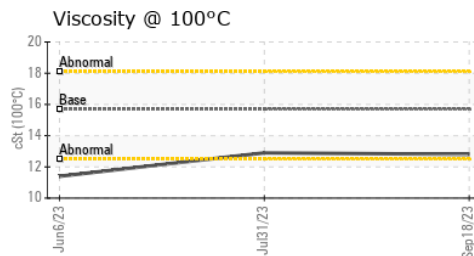
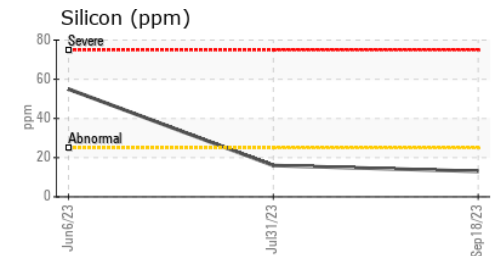
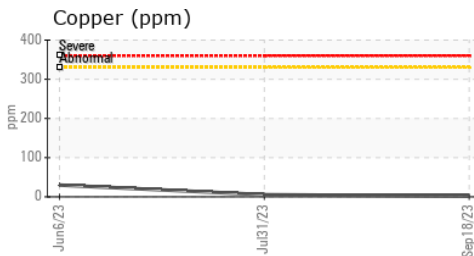
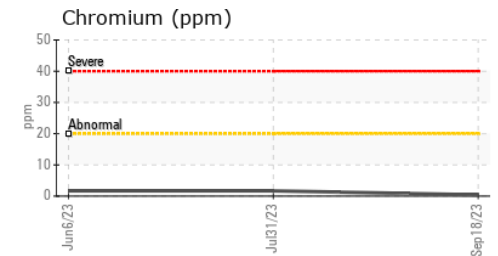
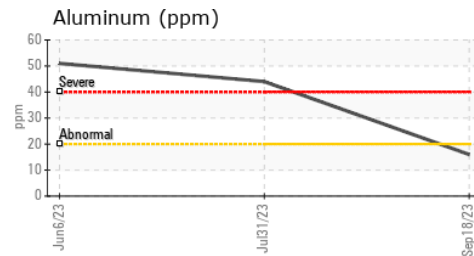
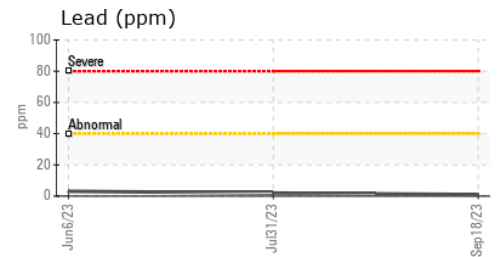
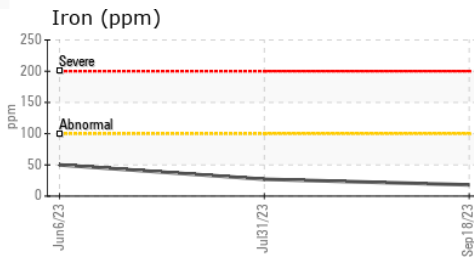
# OIL ANALYSIS REPORT



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	12.8	12.9 ▲ 11.4

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0819746 **Received** : 27 Sep 2023  
**Lab Number** : 05963018 **Diagnosed** : 29 Sep 2023  
**Unique Number** : 10669569 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2

**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

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)