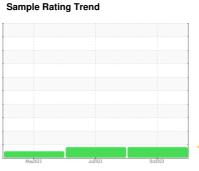


# **OIL ANALYSIS REPORT**





Machine Id Component

**Diesel Engine** 

CHEVRON DELO 400 MULTIGRADE 15W40 (--- GAL)



### Recommendation

No corrective action is recommended at this time. 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

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

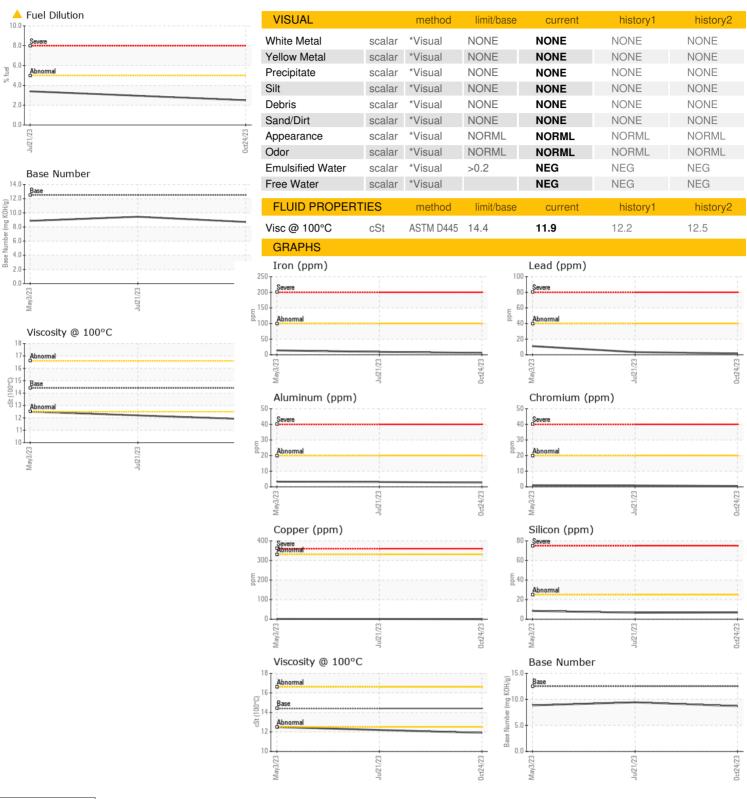
### Fluid Condition

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

) ( GAL)	Мау <sup>2</sup> 023 Jui <sup>2</sup> 023 0x2 <sup>2</sup> 023					
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0819750	WC0819755	WC0756107
Sample Date		Client Info		24 Oct 2023	21 Jul 2023	03 May 2023
Machine Age	hrs	Client Info		1090	779	450
Oil Age	hrs	Client Info		300	300	450
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				MARGINAL	MARGINAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	6	9	14
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	3
Lead	ppm	ASTM D5185m	>40	2	3	11
Copper	ppm	ASTM D5185m	>330	<1	1	1
Tin	ppm	ASTM D5185m	>15	<1	<1	1
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	151	281	298	263
Barium	ppm	ASTM D5185m	0.4	0	0	0
Molybdenum	ppm	ASTM D5185m	250	120	122	119
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	0	612	650	684
Calcium	ppm	ASTM D5185m	2046	1512	1616	1557
Phosphorus	ppm	ASTM D5185m	1043	746	695	720
Zinc	ppm	ASTM D5185m	943	804	830	869
Sulfur	ppm	ASTM D5185m	5012	2350	2821	2788
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	7	8
Sodium	ppm	ASTM D5185m		5	3	2
Potassium	ppm	ASTM D5185m	>20	2	5	2
Fuel	%	ASTM D3524	>5	<u>^</u> 2.5	▲ 3.4	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.4	0.6
Nitration	Abs/cm	*ASTM D7624	>20	8.0	8.3	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.8	23.8	25.3
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.0	18.2	20.3
	mg KOH/g	ASTM D2896	12.5	8.70	9.44	8.86
Base Number (BN)						



## **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: WC0819750 : 05993765 : 10722125

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 30 Oct 2023 : 03 Nov 2023 Diagnosed

Diagnostician : Wes Davis Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

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. **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

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)