

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

### 429020

#### Component Diesel Engine Fluid CHEVRON DELO 400 XLE 15W40 (10 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.

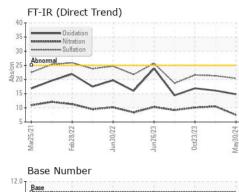
#### Fluid Condition

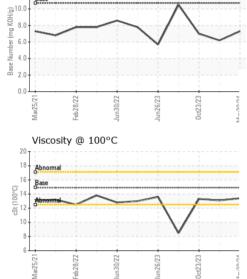
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sample NumberClient InfoGFL0104701GFL0096230GFL009633Sample DateClient Info30 May 202408 Feb 202423 Oct 20Machine AgehrsClient Info121221188111275Oil AgehrsClient Info118816500Oil ChangedClient InfoNot ChangdChangedChangedSample StatusVormationNORMALNORMALNORMAL	
Machine AgehrsClient Info121221188111275Oil AgehrsClient Info118816500Oil ChangedClient InfoNot ChangedChangedChangedSample StatusVNORMALNORMALNORMAL	23
Oil Age hrs Client Info 11881 650 0   Oil Changed Client Info Not Changed Changed Changed   Sample Status NORMAL NORMAL NORMAL	
Oil Changed Client Info Not Changed Changed Changed   Sample Status NORMAL NORMAL NORMAL	
Sample Status NORMAL NORMAL NORMAL	
CONTAMINATION method limit/base current history1 histor	y2
Fuel WC Method >2.0 <1.0 <1.0 <1.0	
Water WC Method >0.2 NEG NEG NEG	
Glycol WC Method NEG NEG NEG	
WEAR METALS method limit/base current history1 histor	y2
Iron ppm ASTM D5185m >100 7 31 81	
Chromium     ppm     ASTM D5185m     >20     0     1     2	
Nickel     ppm     ASTM D5185m     >4     0     0     <1	
Titanium     ppm     ASTM D5185m     5     10     5	
Silver     ppm     ASTM D5185m     >3     0     0     0	
Aluminum     ppm     ASTM D5185m     >20     2     4     11	
Lead     ppm     ASTM D5185m     >40     0     <1	
Copper     ppm     ASTM D5185m     >330     0     1     2	
Tin     ppm     ASTM D5185m     >15     0     <1	
Vanadium     ppm     ASTM D5185m     <1	
Cadmium     ppm     ASTM D5185m     O     <1	
ADDITIVES method limit/base current history1 histor	y2
Boron ppm ASTM D5185m 316 101 213	
Barium     ppm     ASTM D5185m     0     0     0	
Molybdenum     ppm     ASTM D5185m     59     53     95	
Manganese     ppm     ASTM D5185m     <1	
Magnesium     ppm     ASTM D5185m     503     681     623	
Calcium ppm ASTM D5185m 1482 1447 1441	
Phosphorus     ppm     ASTM D5185m     760     864     702     720	
Zinc ppm ASTM D5185m 830 982 819 837	
Sulfur     ppm     ASTM D5185m     2770     3509     2915     3006	
CONTAMINANTS method limit/base current history1 histor	y2
Silicon ppm ASTM D5185m >25 0 5 7	
<b>Sodium</b> ppm ASTM D5185m <b>2</b> 4 5	
Potassium     ppm     ASTM D5185m     >20     1     7     22	
INFRA-RED method limit/base current history1 histor	
INFRA-RED method limit/base current history1 histor	
INFRA-RED method limit/base current history1 histor   Soot % % *ASTM D7844 >3 0.3 0.3	
INFRA-RED     method     limit/base     current     history1     histor       Soot %     %     *ASTM D7844     >3     0.3     0.3     0.3       Nitration     Abs/cm     *ASTM D7624     >20     7.5     10.5     10.1	y2
INFRA-RED     method     limit/base     current     history1     histor       Soot %     %     *ASTM D7844     >3     0.3     0.3     0.3       Nitration     Abs/cm     *ASTM D7624     >20     7.5     10.5     10.1       Sulfation     Abs/.1mm     *ASTM D7415     >30     20.4     21.3     21.6	y2



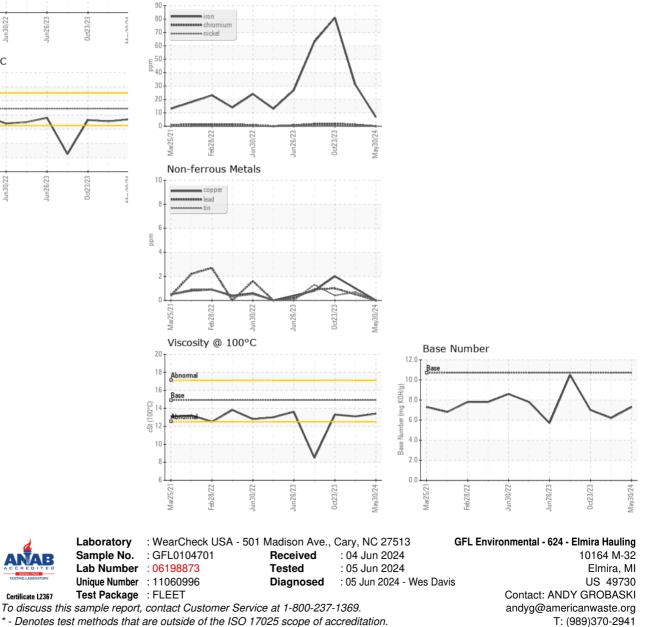
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.9	13.4	13.1	13.3
GRAPHS						

Ferrous Alloys



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

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Certificate 12367

Submitted By: KEITH CAMPBELL

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