

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Io 925035-142576 Component

Diesel Engine

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





SAMPLE INFORMATION method GFL0103445 GFL0103441 GFL0098448 Sample Number **Client Info** Resample at the next service interval to monitor. 01 Feb 2024 Sample Date Client Info 23 Jan 2024 20 Dec 2023 Machine Age hrs **Client Info** 17132 17105 17030 Oil Age hrs Client Info 102 75 459 Oil Changed **Client Info** N/A Changed Not Changd NORMAL Sample Status NORMAL NORMAL CONTAMINATION Fuel WC Method >3.0 <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG WEAR METALS 5 >120 5 11 Iron ppm ASTM D5185m Chromium ASTM D5185m >20 0 0 ppm <1 0 Nickel >5 ppm ASTM D5185m <1 <1 Titanium ppm ASTM D5185m >2 0 0 0 Silver ASTM D5185m >2 0 0 0 ppm 3 Aluminum ASTM D5185m >20 3 3 ppm 0 Lead ASTM D5185m >40 1 0 ppm ASTM D5185m >330 9 0 Copper ppm <1 0 Tin ppm ASTM D5185m >15 <1 <1 Vanadium ppm ASTM D5185m <1 <1 0 Cadmium 0 0 0 ASTM D5185m ppm ADDITIVES Boron ppm ASTM D5185m 151 35 38 60 Barium ASTM D5185m 0.4 1 0 0 ppm 72 71 Molybdenum ASTM D5185m 250 76 ppm Manganese ASTM D5185m 0 ppm <1 <1 Magnesium ppm ASTM D5185m 0 896 843 840 Calcium ppm ASTM D5185m 2046 1071 1047 1147 Phosphorus ASTM D5185m 1043 989 937 850 ppm Zinc 943 ppm ASTM D5185m 1211 1161 1110 Sulfur ASTM D5185m 5012 3154 2898 2966 ppm

CONTAMINANTS

Base Number (BN) mg KOH/g ASTM D2896 12.5

Silicon	ppm	ASTM D5185m	>25	4	5	6
Sodium	ppm	ASTM D5185m		4	3	2
Potassium	ppm	ASTM D5185m	>20	5	1	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.2	0.5
Nitration	Abs/cm	*ASTM D7624	>20	6.1	5.8	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	17.8	19.6
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	13.3	15.2

8.7

Contamination

Wear

DIAGNOSIS

Recommendation

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.

8.3

8.4



cSt (100°C)

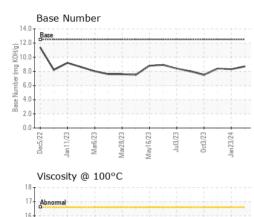
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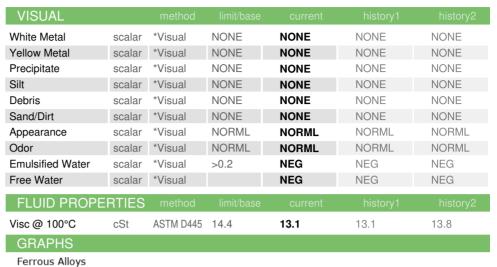
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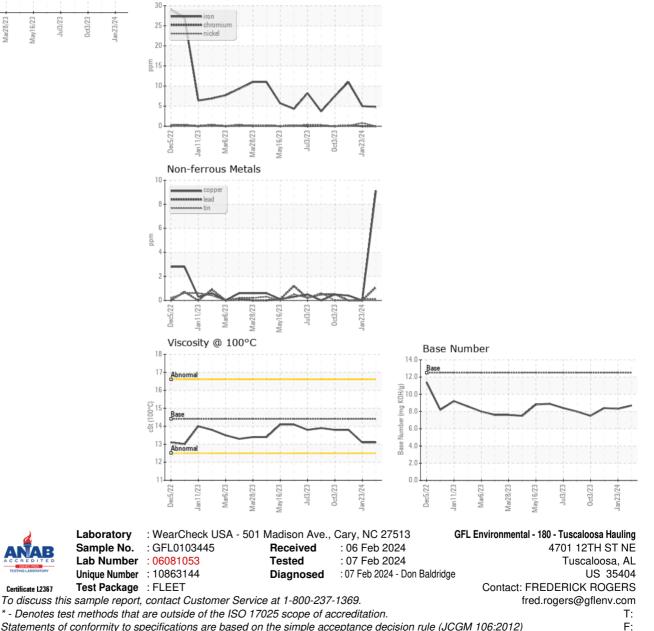
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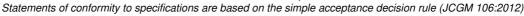
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Submitted By: see also GFL868 - Chelsea Bryan