

### **OIL ANALYSIS REPORT**

Oil Age

Fuel

Water

Glycol

Iron

Chromium

Nickel

Silver

Lead

Tin

Copper

Vanadium

Cadmium

Boron

Barium

Manganese

Magnesium

Phosphorus

Calcium

Zinc

Titanium

Aluminum

Oil Changed

# (YA156343) 020 410002

### **Diesel Engine DIESEL ENGINE OIL SAE 40 (36 QTS)**

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

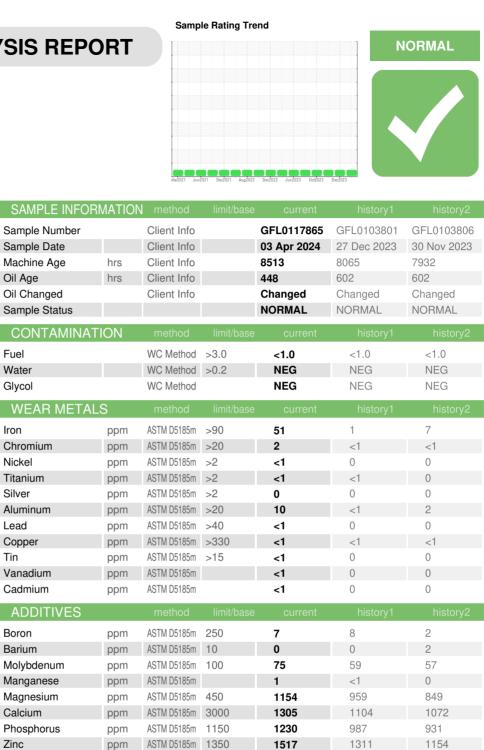
All component wear rates are normal.

#### 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.

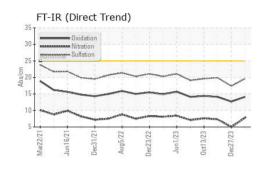


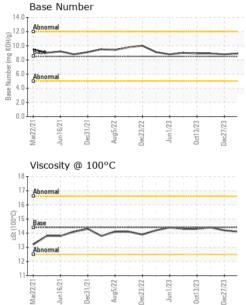
Sulfur	ppm	ASTM D5185m	4250	3886	3236	4216
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	4	2
Sodium	ppm	ASTM D5185m	>216	4	1	2
Potassium	ppm	ASTM D5185m	>20	22	2	6

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	1.1	0.3	1
Nitration	Abs/cm	*ASTM D7624	>20	7.8	5.0	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	17.4	19.9
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	12.7	14.1
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.9	8.8	8.9



## **OIL ANALYSIS REPORT**

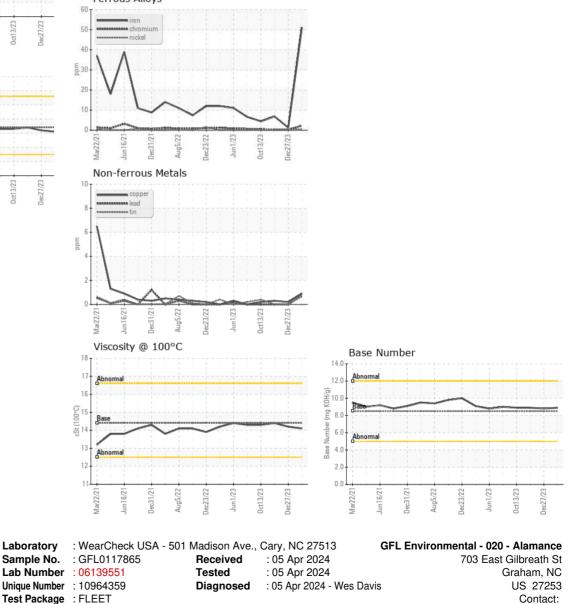




Certificate 12367

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	14.4	14.1	14.2	14.4
GRAPHS						

Ferrous Alloys



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)

Report Id: GFL020 [WUSCAR] 06139551 (Generated: 04/05/2024 17:53:14) Rev: 1

richard.belcher@gflenv.com

T: (800)207-6618

F: (336)229-0526

Page 2 of 2