

(EDB790)

OIL ANALYSIS REPORT

NORMAL

3743 **Diesel Engine DIESEL ENGINE OIL SAE 15W40 (11 GAL)**

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

Area

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.

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SAMPLE INFORMATION method GFL0111552 GFL0111554 GFL06096096 Sample Number **Client Info** 20 Feb 2024 Sample Date Client Info 02 Apr 2024 20 Mar 2024 Client Info 0 Machine Age hrs 0 20454 Oil Age hrs Client Info 0 0 0 Oil Changed Client Info N/A Changed Changed NORMAL Sample Status MARGINAL ABNORMAL CONTAMINATION Fuel >3.0 **3**.8 WC Method <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG WEAR METALS >75 3 15 52 Iron ppm ASTM D5185m ASTM D5185m >5 0 2 Chromium ppm <1 0 0 Nickel >4 ppm ASTM D5185m <1 Titanium ppm ASTM D5185m >2 0 0 0 Silver ASTM D5185m 0 0 0 >2 ppm Aluminum 1 3 ppm ASTM D5185m >15 <1 0 Lead ASTM D5185m >25 0 0 ppm ASTM D5185m >100 0 2 Copper ppm 7 0 0 Tin ppm ASTM D5185m >4 <1 Vanadium ppm ASTM D5185m 0 0 0 Cadmium 0 0 0 ASTM D5185m ppm ADDITIVES Boron mag ASTM D5185m 250 1 4 4 Barium ASTM D5185m 10 0 0 0 ppm 61 54 Molybdenum ASTM D5185m 100 49 ppm 0 ASTM D5185m Manganese ppm 0 <1 Magnesium ASTM D5185m 450 1049 864 660 ppm Calcium ppm ASTM D5185m 3000 1198 1040 735 Phosphorus ASTM D5185m 1150 1113 963 761 ppm Zinc ppm ASTM D5185m 1350 1362 1135 911 Sulfur ASTM D5185m 4250 4230 3292 2127 ppm CONTAMINANTS 3 6 8 Silicon ASTM D5185m >25 ppm Sodium ASTM D5185m >158 2 5 11 ppm Potassium ASTM D5185m >20 <1 0 2 ppm **INFRA-RED** % 0.1 0.5 1.5 Soot % *ASTM D7844 >6 Nitration Abs/cm *ASTM D7624 >20 5.6 7.4 9.6 Sulfation *ASTM D7415 >30 17.6 18.6 19.9 Abs/.1mm FLUID DEGRADATION Abs/.1mm *ASTM D7414 >25 13.7 14.5 12.9 Oxidation Base Number (BN) mg KOH/g ASTM D2896 8.5 8.7

5.4

7.6



OIL ANALYSIS REPORT







VISUAL		method				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
	DTIES	mathad	limit/bass	ourropt	biotomit	biotory 0
FLUID PROPE	RHES	method	limit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	14.4	14.2	12.8	10.8
GRAPHS						

Ferrous Alloys

lead

350

300

Nov17/7

At 16

Nov17/17

18

14

cSt (100°C)





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 095 - Atlanta West Sample No. : GFL0111552 Received : 05 Apr 2024 2699 Cochran Industrial Blvd Lab Number : 06139714 Tested : 06 Apr 2024 Douglasville, GA Unique Number : 10964522 Diagnosed : 06 Apr 2024 - Wes Davis US 30127-1332 Test Package : FLEET Contact: Darrell Welch Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. darrell.welch@gflenv.com T: (800)207-6618 * - 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)

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Submitted By: Darrell Welch

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