

OIL ANALYSIS REPORT

(BB50040) 0527m

Diesel Engine

DIESEL ENGINE OIL SAE 30 (--- GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

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

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

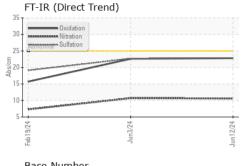
Fluid Condition

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

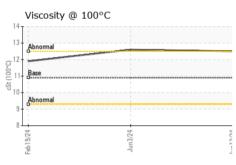
SAMPLE INFORMATION method limit/base current history1 hist Sample Number Client Info GFL0116047 GFL0116019 GFL009 Sample Date Client Info 12 Jun 2024 03 Jun 2024 19 Feb 2 Machine Age mls Client Info 170463 170463 0 Oil Age mls Client Info N/A N/A N/A N/A Oil Changed Client Info N/A N/A N/A N/A N/A Sample Status NORMAL NORMAL NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 hist Fuel WC Method >5 <1.0 <1.0 1.3 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG NEG WEAR METALS method limit/base current history1 hist Iron <	2888 2024 L
Sample Date	L Dry2
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Manganese ppm ASTM D5185m 0 <1	
Magnesium ppm ASTM D5185m 450 926 973 897	
Calcium ppm ASTM D5185m 3000 1056 1125 1027	
Phosphorus ppm ASTM D5185m 1150 1041 1046 1018	
Zinc ppm ASTM D5185m 1350 1235 1262 1193	
Sulfur ppm ASTM D5185m 4250 3244 3240 3071	
CONTAMINANTS method limit/base current history1 history1	ory2
Silicon ppm ASTM D5185m >25 5 6 5	
Sodium ppm ASTM D5185m >75 2 4 2 Potassium ppm ASTM D5185m >20 <1	
**	
INFRA-RED method limit/base current history1 hist	ory2
Soot %	
Nitration Abs/cm *ASTM D7624 >20 10.6 10.7 7.3	
Sulfation Abs/.1mm *ASTM D7415 >30 22.9 22.7 19.1	
FLUID DEGRADATION method limit/base current history1 hist	
Oxidation Abs/.1mm *ASTM D7414 >25 22.8 22.6 15.7	ory2
Base Number (BN) mg KOH/g ASTM D2896 8.5 7.9 7.9 7.6	ory2

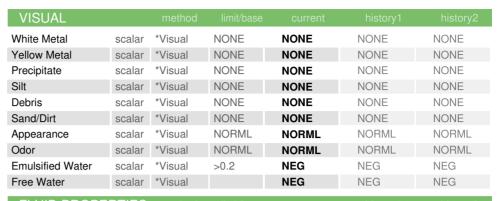


OIL ANALYSIS REPORT



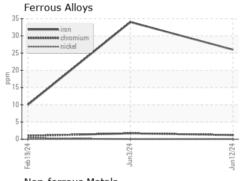
	14.0-	Base Number	
	12.0	Abnormal	
OH/g)	10.0		
mg K	8.0-	Base	
Base Number (mg KOH/g)	6.0-	Abnormal	
ase N	4.0		
ä	2.0	!	
	0.0	4 4	- 5
		Jun3/24	0.012.1

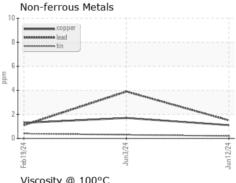


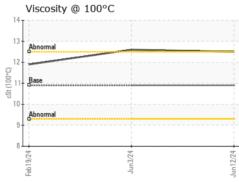


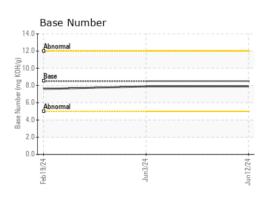
FLUID PROPI	ERHES	method				history2	
Visc @ 100°C	cSt	ASTM D445	10.9	12.5	12.6	11.9	

GRAPHS













Laboratory Sample No. Lab Number : 06211259 Unique Number : 11084123

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0116047

Tested

Received : 17 Jun 2024 : 18 Jun 2024

Diagnosed : 18 Jun 2024 - Wes Davis

ALPENA, MI US 49707 Contact: DYLAN TOLAN dylan.tolan@gflenv.com T: (989)854-7203

1241 KING SETTLEMENT RD

GFL Environmental - 641 - Alpena

Certificate 12367

Test Package : FLEET To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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)