

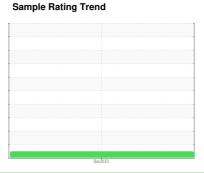
OIL ANALYSIS REPORT

NORMAL



Machine Id 812097 Component **Diesel Engine**

DIESEL ENGINE OIL S





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

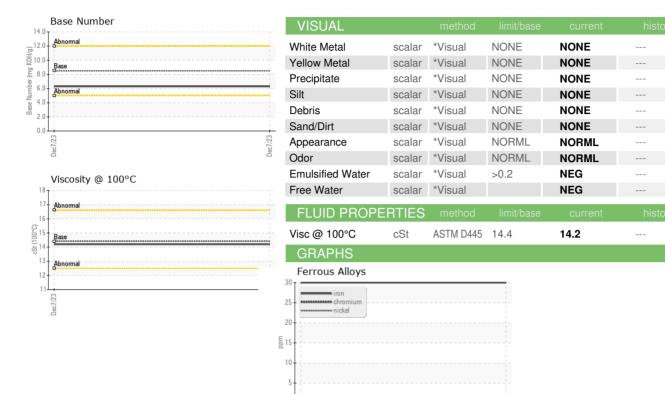
Fluid Condition

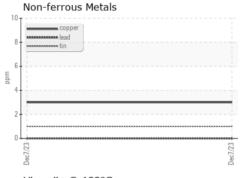
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

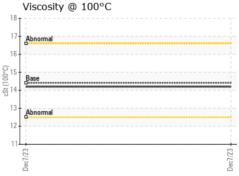
Cample Number Client Info GFL0093848	AE 40 (GAL)				Dec2023		
Client Info	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age	Sample Number		Client Info		GFL0093848		
Dil Age	Sample Date		Client Info		07 Dec 2023		
Dil Changed Client Info N/A NORMAL Sample Status Sample Status	Machine Age	hrs	Client Info		0		
CONTAMINATION method limit/base current history1 history2 method sa. 0 sa. 0	Oil Age	hrs	Client Info		0		
CONTAMINATION method limit/base current history1 history2	Oil Changed		Client Info		N/A		
Water	Sample Status				NORMAL		
Water WC Method Solvention NEG	CONTAMINATI	ION	method	limit/base	current	history1	history2
WEAR METALS	-uel		WC Method	>3.0	<1.0		
WEAR METALS method limit/base current history1 history2 Fron ppm ASTM D5185m >120 30 Chromium ppm ASTM D5185m >20 -1 Vickel ppm ASTM D5185m >2 0 Silver ppm ASTM D5185m >2 -1 Aluminum ppm ASTM D5185m >2 -1 Aluminum ppm ASTM D5185m >2 -1 Lead ppm ASTM D5185m >2 -1 Lead ppm ASTM D5185m >2 1 Lead ppm ASTM D5185m >3 3 Copper ppm ASTM D5185m >1 1 Cadmium ppm ASTM D5185m 250 1 </td <td>Vater</td> <td></td> <td>WC Method</td> <td>>0.2</td> <td>NEG</td> <td></td> <td></td>	Vater		WC Method	>0.2	NEG		
Concord	Glycol		WC Method		NEG		
ASTM D5185m >20	WEAR METALS	S	method	limit/base	current	history1	history2
STAND D5185m S5 C1 STAND S	ron	ppm	ASTM D5185m	>120	30		
Description	Chromium	ppm	ASTM D5185m	>20	<1		
Silver	Nickel	ppm	ASTM D5185m	>5	<1		
Silver	- itanium	• •	ASTM D5185m	>2	0		
December December	Silver	ppm	ASTM D5185m	>2	<1		
Copper	Aluminum	ppm	ASTM D5185m	>20	1		
Copper	_ead	ppm	ASTM D5185m	>40	0		
Acade Acad	Copper	• •	ASTM D5185m	>330	3		
Acade Acad	• •		ASTM D5185m	>15			
ADDITIVES	/anadium		ASTM D5185m		0		
Soron ppm ASTM D5185m 250 1	Cadmium		ASTM D5185m		0		
Sarium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 100 60 Manganese ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m 450 974 Calcium ppm ASTM D5185m 3000 1057 Phosphorus ppm ASTM D5185m 1150 932 Zinc ppm ASTM D5185m 1350 1277 Sulfur ppm ASTM D5185m 4250 2281 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Goldium ppm ASTM D5185m >20 <1 Potassium ppm ASTM D5185m >20 <1 Potassium ppm ASTM D5185m	Boron	ppm	ASTM D5185m	250	1		
Manganese ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m 450 974 Calcium ppm ASTM D5185m 3000 1057 Phosphorus ppm ASTM D5185m 1150 932 Zinc ppm ASTM D5185m 1350 1277 Sulfur ppm ASTM D5185m 4250 2281 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Godium ppm ASTM D5185m >216 1 Potassium ppm ASTM D5185m >20 <1 Potassium ppm ASTM D5185m >20 <1 Soot % % *ASTM D7844 >4	Barium	ppm	ASTM D5185m	10	0		
Magnesium ppm ASTM D5185m 450 974 Calcium ppm ASTM D5185m 3000 1057 Phosphorus ppm ASTM D5185m 1150 932 Zinc ppm ASTM D5185m 1350 1277 Sulfur ppm ASTM D5185m 4250 2281 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Sodium ppm ASTM D5185m >20 <1	Molybdenum	ppm	ASTM D5185m	100	60		
Calcium ppm ASTM D5185m 3000 1057 Phosphorus ppm ASTM D5185m 1150 932 Zinc ppm ASTM D5185m 1350 1277 Sulfur ppm ASTM D5185m 4250 2281 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Sodium ppm ASTM D5185m >216 1 Potassium ppm ASTM D5185m >20 <1	Manganese	ppm	ASTM D5185m		<1		
Phosphorus ppm ASTM D5185m 1150 932 Zinc ppm ASTM D5185m 1350 1277 Sulfur ppm ASTM D5185m 4250 2281 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Godium ppm ASTM D5185m >216 1 Potassium ppm ASTM D5185m >20 <1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 1.3 Sulfation Abs/:mm *ASTM D7415 >30 22.7 FLUID DEGRADATION method limit/base current history1 history2 Dixidation Abs/:1mm *ASTM	Magnesium	ppm	ASTM D5185m	450	974		
Contamination Contaminatio Contamination Contamination Contamination Contamination	Calcium	ppm	ASTM D5185m	3000	1057		
Sulfur ppm ASTM D5185m 4250 2281 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Sodium ppm ASTM D5185m >216 1 Potassium ppm ASTM D5185m >20 <1 INFRA-RED method limit/base current history1 history2 Goot % % *ASTM D7844 >4 1.3 Sulfration Abs/cm *ASTM D7624 >20 10.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 18.3	Phosphorus	ppm	ASTM D5185m	1150	932		
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Bodium ppm ASTM D5185m >216 1 Potassium ppm ASTM D5185m >20 <1	Zinc	ppm	ASTM D5185m	1350	1277		
Solition ppm ASTM D5185m >25 4	Sulfur	ppm	ASTM D5185m	4250	2281		
Sodium	CONTAMINAN	TS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 <1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 1.3 Nitration Abs/cm *ASTM D7624 >20 10.2 Sulfation Abs/.1mm *ASTM D7415 >30 22.7 FLUID DEGRADATION method limit/base current history1 history2 Dxidation Abs/.1mm *ASTM D7414 >25 18.3	Silicon	ppm	ASTM D5185m	>25	4		
INFRA-RED	Sodium	ppm	ASTM D5185m	>216	1		
Soot %	Potassium	ppm	ASTM D5185m	>20	<1		
Nitration Abs/cm *ASTM D7624 >20 10.2 Sulfation Abs/.1mm *ASTM D7415 >30 22.7 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 18.3	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 22.7 FLUID DEGRADATION method limit/base current history1 history2 Dxidation Abs/.1mm *ASTM D7414 >25 18.3	Soot %	%	*ASTM D7844	>4	1.3		
FLUID DEGRADATION method limit/base current history1 history2 Dxidation Abs/.1mm *ASTM D7414 >25 18.3	Nitration	Abs/cm	*ASTM D7624	>20	10.2		
Oxidation Abs/.1mm *ASTM D7414 >25 18.3	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7		
	FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 8.5 6.3	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.3		
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.3		

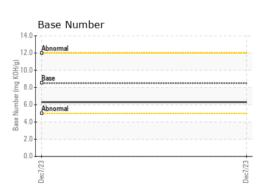


OIL ANALYSIS REPORT











Certificate L2367

Laboratory Sample No.

Lab Number Unique Number Test Package : FLEET

: GFL0093848 : 06037516 : 10792745

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 18 Dec 2023 : 19 Dec 2023 Diagnosed : Wes Davis Diagnostician

GFL Environmental - 952 - New London E8257 WIS-54

NEW LONDON, WI US 54961

Contact: MATTHEW TAYLOR

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)

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