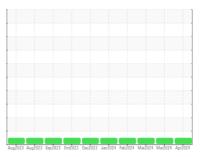


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id

AUTOCAR 813022

Diesel Engine

Fluid

DIESEL ENGINE OIL SAE 40 (--- 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

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

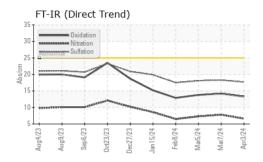
Fluid Condition

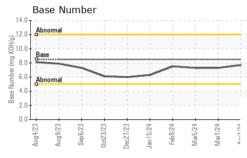
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

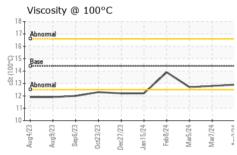
		Aug2023 Aug2	(023 Sep2023 Oct2023 Dec2)	023 Jan 2024 Feb 2024 Mar 2024 Mar	2024 Apr2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0116790	GFL0109021	GFL0109037	
Sample Date		Client Info		03 Apr 2024	07 Mar 2024	05 Mar 2024	
Machine Age	hrs	Client Info		1615	1473	1451	
Oil Age	hrs	Client Info		1615	1473	1451	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	_S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	3	8	11	
Chromium	ppm	ASTM D5185m	>20	0	0	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	0	
Titanium	ppm	ASTM D5185m		0	0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	4	7	11	
Lead	ppm	ASTM D5185m	>40	0	0	0	
Copper	ppm	ASTM D5185m	>330	0	0	<1	
Tin	ppm	ASTM D5185m	>15	<1	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	250	11	9	14	
Barium	ppm	ASTM D5185m	10	0	0	0	
Molybdenum	ppm	ASTM D5185m	100	57	58	84	
Manganese	ppm	ASTM D5185m		<1	0	0	
Magnesium	ppm	ASTM D5185m	450	806	726	1171	
Calcium	ppm	ASTM D5185m	3000	1078	1080	1726	
Phosphorus	ppm	ASTM D5185m	1150	935	817	1360	
Zinc	ppm	ASTM D5185m	1350	1100	1009	1774	
Sulfur	ppm	ASTM D5185m	4250	3065	2519	4688	
CONTAMINAN	NTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	2	2	4	
Sodium	ppm	ASTM D5185m	>216	<1	1	4	
Potassium	ppm	ASTM D5185m	>20	6	16	22	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	6.6	7.8	7.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7	18.3	18.1	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	14.2	13.8	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.7	7.3	7.3	
. ,							

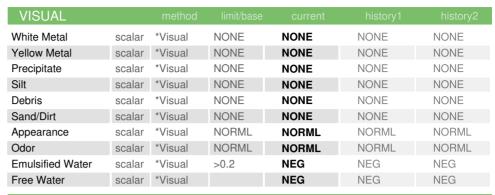


OIL ANALYSIS REPORT



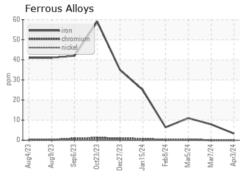




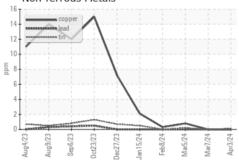


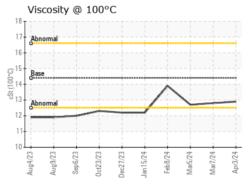
FLUID PROP	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	14.4	12.9	12.8	12.7

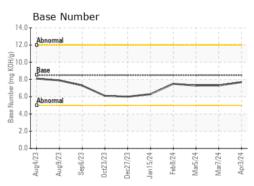
GRAPHS



Non-ferrous Metals











Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0116790 Lab Number : 06144933 Unique Number : 10969741

Received : 10 Apr 2024 **Tested** Diagnosed

: 11 Apr 2024 : 11 Apr 2024 - Wes Davis

GFL Environmental - 009 - Fairburn 6905 Roosevelt Hwy

Fairburn, GA US 30213 Contact: Eric Jones

erjones@gflenv.com T: (678)630-9927

Test Package : FLEET Certificate 12367 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)