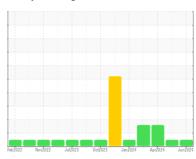


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id
721054
Component
Diesel Engine

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.

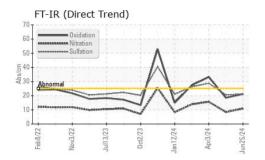
Fluid Condition

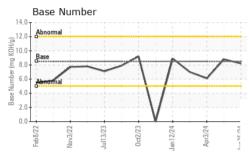
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

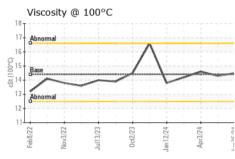
##b2022 Nov2022 Ju2023 0czl023 Jun2024 Apr2024 Jun2024							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0122077	GFL0111878	GFL0116583	
Sample Date		Client Info		25 Jun 2024	16 Apr 2024	03 Apr 2024	
Machine Age	hrs	Client Info		8424	7941	7941	
Oil Age	hrs	Client Info		483	7941	1610	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	ABNORMAL	
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	57	58	<u> </u>	
Chromium	ppm	ASTM D5185m	>20	4	4	8	
Nickel	ppm	ASTM D5185m	>4	2	2	3	
Titanium	ppm	ASTM D5185m		<1	<1	<1	
Silver	ppm	ASTM D5185m	>3	0	<1	0	
Aluminum	ppm	ASTM D5185m	>20	12	8	<u>\$\times\$</u> 25	
Lead	ppm	ASTM D5185m	>40	<1	1	0	
Copper	ppm	ASTM D5185m	>330	2	2	4	
Tin	ppm	ASTM D5185m	>15	<1	1	0	
Vanadium	ppm	ASTM D5185m		<1	<1	<1	
Cadmium	ppm	ASTM D5185m		0	1	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	250	14	13	4	
Barium	ppm	ASTM D5185m	10	0	0	0	
Molybdenum	ppm	ASTM D5185m	100	59	58	53	
Manganese	ppm	ASTM D5185m		<1	2	2	
Magnesium	ppm	ASTM D5185m	450	951	816	901	
Calcium	ppm	ASTM D5185m	3000	1175	1062	1060	
Phosphorus	ppm	ASTM D5185m	1150	1120	951	874	
Zinc	ppm	ASTM D5185m	1350	1355	1098	1191	
Sulfur	ppm	ASTM D5185m	4250	3504	3011	3166	
CONTAMINAN		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	10	10	10	
Sodium	ppm	ASTM D5185m		10	2	6	
Potassium	ppm	ASTM D5185m		8	10	6	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.5	0.5	2.5	
Nitration	Abs/cm	*ASTM D7624	>20	10.9	8.4	15.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	20.5	28.7	
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.2	18.5	33.2	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.2	8.8	6.1	

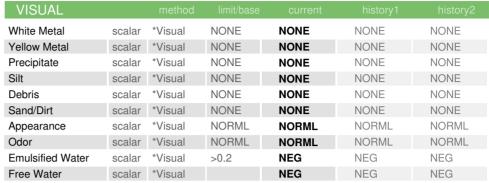


OIL ANALYSIS REPORT



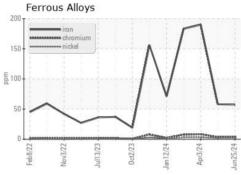


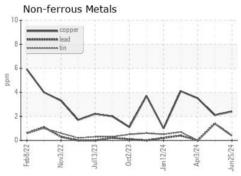


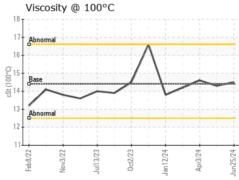


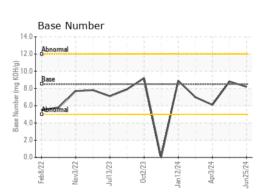
FLUID PROPI	ERIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	14.4	14.5	14.3	14.6

GRAPHS













Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: GFL0122077 Lab Number : 06222170 Unique Number : 11100367

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 27 Jun 2024

Tested : 28 Jun 2024 Diagnosed : 28 Jun 2024 - Wes Davis

GFL Environmental - 652 - Fredericksburg Hauling

10954 Houser Drive Fredericksburg, VA US 22408

Contact: WILLIAM MILO wmilo@gflenv.com

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)

T:

F: