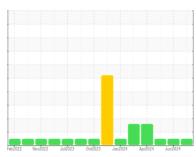


OIL ANALYSIS REPORT

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.

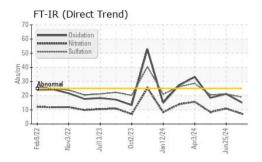
Fluid Condition

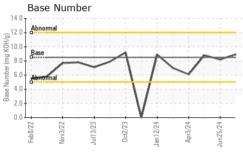
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

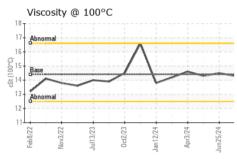
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0127193	GFL0122077	GFL0111878	
Sample Date		Client Info		11 Jul 2024	25 Jun 2024	16 Apr 2024	
Machine Age	hrs	Client Info		8799	8424	7941	
Oil Age	hrs	Client Info		375	483	7941	
Oil Changed		Client Info		Not Changd	Changed	Changed	
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	22	57	58	
Chromium	ppm	ASTM D5185m	>20	1	4	4	
Nickel	ppm	ASTM D5185m	>4	<1	2	2	
Titanium	ppm	ASTM D5185m		<1	<1	<1	
Silver	ppm	ASTM D5185m	>3	<1	0	<1	
Aluminum	ppm	ASTM D5185m	>20	3	12	8	
Lead	ppm	ASTM D5185m	>40	0	<1	1	
Copper	ppm	ASTM D5185m	>330	2	2	2	
Tin	ppm	ASTM D5185m	>15	<1	<1	1	
Vanadium	ppm	ASTM D5185m		<1	<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	1	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	250	12	14	13	
Barium	ppm	ASTM D5185m	10	<1	0	0	
Molybdenum	ppm	ASTM D5185m	100	61	59	58	
Manganese	ppm	ASTM D5185m		0	<1	2	
Magnesium	ppm	ASTM D5185m	450	910	951	816	
Calcium	ppm	ASTM D5185m	3000	1153	1175	1062	
Phosphorus	ppm	ASTM D5185m	1150	929	1120	951	
Zinc	ppm	ASTM D5185m	1350	1215	1355	1098	
Sulfur	ppm	ASTM D5185m	4250	2912	3504	3011	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	6	10	10	
Sodium	ppm	ASTM D5185m	>216	1	10	2	
Potassium	ppm	ASTM D5185m	>20	4	8	10	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.2	0.5	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	7.2	10.9	8.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	21.1	20.5	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	21.2	18.5	
Base Number (BN)	mg KOH/g	ASTM D2896		8.9	8.2	8.8	
(211)						0.0	



OIL ANALYSIS REPORT



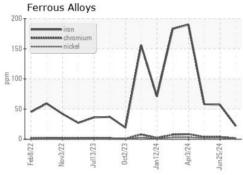


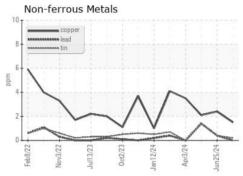


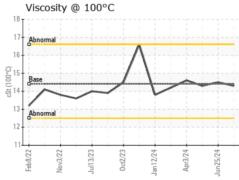
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

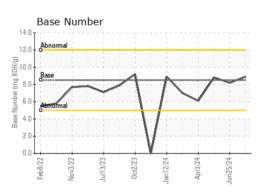
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	14.4	14.3	14.5	14.3	

GRAPHS













Certificate 12367

Laboratory Sample No.

Lab Number : 06235581

: GFL0127193 Unique Number : 11124415 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Jul 2024 **Tested** : 15 Jul 2024

Diagnosed : 15 Jul 2024 - Wes Davis

GFL Environmental - 652 - Fredericksburg Hauling

10954 Houser Drive Fredericksburg, VA US 22408

Contact: WILLIAM MILO wmilo@gflenv.com T:

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)

F: