

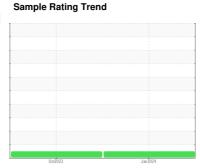
OIL ANALYSIS REPORT



(BD56681) {UNASSIGNED} 914047

Component 1 Diesel Engine

DIESEL ENGINE OIL SAE 40 (9 GAL)





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.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

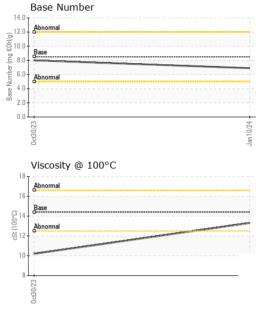
Fluid Condition

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

			0ct2023	Jan2024		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0106638	GFL0097666	
Sample Date		Client Info		10 Jan 2024	30 Oct 2023	
Machine Age	hrs	Client Info		1195	599	
Oil Age	hrs	Client Info		636	599	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATIO	NC	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	0.4	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	22	33	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
	ppm	ASTM D5185m	>5	2	3	
Titanium	ppm	ASTM D5185m	>2	0	<1	
Silver	ppm	ASTM D5185m	>2	<1	1	
Aluminum	ppm	ASTM D5185m	>20	<1	4	
Lead	ppm	ASTM D5185m	>40	0	<1	
	ppm	ASTM D5185m	>330	30	133	
	ppm		>15	1	3	
	ppm	ASTM D5185m		<1	0	
	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	8	202	
Barium	ppm	ASTM D5185m	10	0	0	
Molybdenum	ppm	ASTM D5185m	100	62	103	
	ppm	ASTM D5185m		1	5	
Magnesium	ppm	ASTM D5185m	450	978	670	
Calcium	ppm	ASTM D5185m	3000	1105	1342	
Phosphorus	ppm	ASTM D5185m	1150	1059	697	
Zinc	ppm	ASTM D5185m	1350	1261	858	
Sulfur	ppm	ASTM D5185m	4250	2850	2232	
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	52	
Sodium	ppm	ASTM D5185m	>216	3	3	
Potassium	ppm	ASTM D5185m	>20	<1	8	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.4	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	8.9	7.1	
	Abs/.1mm	*ASTM D7415	>30	20.3	19.7	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	15.5	
	mg KOH/g	ASTM D2896	8.5	6.9	8.0	
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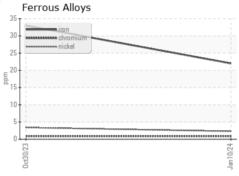
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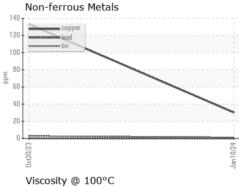


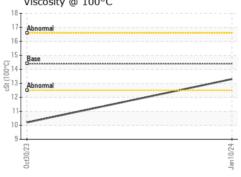
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	

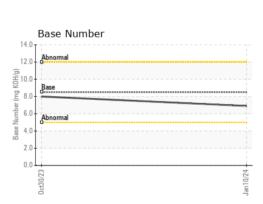
FLUID PROPE	RHES	method	limit/base		nistory1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.3	10.2	

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10836696 Test Package : FLEET

: GFL0106638 : 06065314

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 19 Jan 2024 Diagnosed

Diagnostician : Wes Davis

: 20 Jan 2024

7400 Napier Rd NORTHVILLE, MI US 48168

GFL Environmental - 405 - Arbor Hills

Contact: Anthony Hopkins ahopkins@gflenv.com

T: F:

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)