

OIL ANALYSIS REPORT

Sample Rating Trend





Area (BD49692) {UNASSIGNED} Machine Id 914023

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.

Wear

Metal levels are typical for a new component breaking in.

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 INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0106702	GFL0097658	GFL0097720
Sample Date		Client Info		11 Feb 2024	25 Oct 2023	24 Oct 2023
Machine Age	hrs	Client Info		991	880	370
Oil Age	hrs	Client Info		540	880	370
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
CONTAMINATI	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	0.5	<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	>120	10	39	38
Chromium	ppm	ASTM D5185m	>20	<1	1	1
Nickel	ppm	ASTM D5185m	>5	7	3	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	1	4	1
Lead	ppm	ASTM D5185m	>40	1	0	3
Copper	ppm	ASTM D5185m	>330	73	113	3
Tin	ppm	ASTM D5185m	>15	0	3	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	13	129	2
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	63	99	58
Manganese	ppm	ASTM D5185m		<1	4	<1
Magnesium	ppm	ASTM D5185m	450	1010	657	946
Calcium	ppm	ASTM D5185m	3000	1149	1321	1147
Phosphorus	ppm	ASTM D5185m	1150	1086	681	1029
Zinc	ppm	ASTM D5185m	1350	1276	852	1256
Sulfur	ppm	ASTM D5185m	4250	3316	2045	2893
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	13	8 0	3
Sodium	ppm	ASTM D5185m	>216	3	4	3
Potassium	ppm	ASTM D5185m	>20	2	8	0
		method	limit/base	current	history1	history2
INFRA-RED						
Soot %	%	*ASTM D7844	>4	0.1	0.5	3.4
Soot % Nitration	% Abs/cm	*ASTM D7844 *ASTM D7624	>4 >20	0.1 5.9	0.5 10.5	3.4 3.1
INFRA-RED Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>4 >20 >30	0.1 5.9 18.4	0.5 10.5 24.0	3.4 3.1 11.0
INFRA-RED Soot % Nitration Sulfation FLUID DEGRAE	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415 method	>4 >20 >30 limit/base	0.1 5.9 18.4 current	0.5 10.5 24.0 history1	3.4 3.1 11.0 history2
INFRA-RED Soot % Nitration Sulfation FLUID DEGRAD Oxidation	% Abs/cm Abs/.1mm DATION Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415 method *ASTM D7414	>4 >20 >30 limit/base >25	0.1 5.9 18.4 current 14.5	0.5 10.5 24.0 history1 22.8	3.4 3.1 11.0 history2 4.5



OIL ANALYSIS REPORT

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-	VISUAL		methou	inniv base	e current	Thistory I	Thistory2
i.	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 PROPE	RTIES	method	limit/base	e current	history1	history2
	Visc @ 100°C	cSt	ASTM D445	14.4	13.6	10.3	20.1
	GRAPHS						
	Ferrous Alloys						
	40						
	35 - non						
	30						
	E 20						
	1						
	10						
	5		and and all and the Directory State State				
	0	*******		19-9/100 million			
	24/23	25/23		1/24			
	Octi	Octi		Feb			
	Non-ferrous Metal	S					
	copper	1					
	100 - tin						
	80			/			
1	§ 60-						
	40						
	20						
	20						
	33	/23	200000000000000000000000000000000000000	/24			
	0ct24,	0ct25,		Feb11			
	Viscosity @ 100°C			—	Door North	-	
	22			1	Base Numbe	I	
	20			1	Abnormal		
	18			(B/H	10.0		
				d KO	Base		
	Base			ber (m	0.0		
	Abnormal			- Mum	Abnormal	/	
	12	1		Base	4.0		
	10				2.0		
	84	23		24 +	0.0	33	4
	ct24/2	ct25/2		sb11/2	ct24/2	ct25/2	h11/2
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	: WearCheck USA - 50	1 Madiso	n Ave., Carv	. NC 27513	3 GFL E	nvironmental - 4	05 - Arbor Hills
	: GFL0106702	Rece	ived : 19	Feb 2024			7400 Napier Ro
	: 06092648	Teste	d : 20	Feb 2024		N	DRTHVILLE, M
r	: 10885501	Diagr	nosed : 20	Feb 2024 -	Wes Davis		US 48168



Test Package : FLEET Certificate L2367 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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