

## Machine Id 914031 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 40 (--- GAL)

DIESEL ENGINE VIL SAE 40	( GAL)							
RECOMMENDATION		Test	UOM	Method	Limit/Abn	Current	History1	History2
	. DI	Sample Number		Client Info		GFL0115357	GFL0115359	GFL0110889
Resample at the next service interval to mon		Sample Date		Client Info		14 Mar 2024	12 Mar 2024	20 Feb 2024
brand, type, and viscosity of the oil on your n		Machine Age	hrs	Client Info		1343	1327	1180
		Oil Age	hrs	Client Info		163	147	145
		Filter Age	hrs	Client Info		0	0	0
		Oil Changed		Client Info		Changed	Changed	Changed
		Filter Changed		Client Info		Changed	Changed	Changed
		Sample Status				NORMAL	NORMAL	NORMAL
WEAR		Iron	ppm	ASTM D5185m	>100	31	29	22
		Chromium	ppm	ASTM D5185m	>20	1	<1	<1
All component wear rates are normal.		Nickel	ppm	ASTM D5185m	>4	5	4	3
		Titanium	ppm	ASTM D5185m		<1	<1	0
		Silver	ppm	ASTM D5185m	>3	<1	0	1
		Aluminum	ppm	ASTM D5185m	>20	3	1	1
		Lead	ppm	ASTM D5185m	>40	<1	1	0
		Copper	ppm	ASTM D5185m	>330	150	151	179
		Tin	ppm	ASTM D5185m	>15	2	0	<1
		Vanadium	ppm	ASTM D5185m		<1	<1	0
		White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION		Silicon	ppm	ASTM D5185m	>25	10	8	8
There is no indication of any contamination in the oil.		Potassium	ppm	ASTM D5185m	>20	4	1	1
		Fuel		WC Method	>5	<1.0	<1.0	<1.0
		Water		WC Method	>0.2	NEG	NEG	NEG
		Glycol		WC Method		NEG	NEG	NEG
		Soot %	%	*ASTM D7844	>3	0.5	0.4	0.4
		Nitration	Abs/cm	*ASTM D7624	>20	9.3	9.1	8.7
		Sulfation	Abs/.1mm	*ASTM D7415		20.5	20.5	20.1
		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 *Visual	NORML	NORML	NORML	NORML
		Odor	scalar		NORML	NORML	NORML	NORML
		Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION		Sodium	ppm	ASTM D5185m	>216	4	4	3
The BN result indicates that there is suitable alkalin oil. The condition of the oil is suitable for further ser	alkalinity romaining in the	Boron	ppm	ASTM D5185m		8	7	11
		Barium	ppm	ASTM D5185m		0	0	0
		Molybdenum	ppm	ASTM D5185m	100	65	61	61
		Manganese	ppm	ASTM D5185m		1	<1	1
		Magnesium	ppm	ASTM D5185m		1019	924	916
		Calcium	ppm			1215	1081	1024
		Phosphorus	ppm	ASTM D5185m		1168	951	983
		Zinc	ppm	ASTM D5185m		1323	1111	1198
		Sulfur	ppm	ASTM D5185m		3010	2785	2527
		Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	17.0	16.5

Base Number (BN) mg KOH/g ASTM D2896 8.5

ASTM D445 14.4

Visc @ 100°C cSt

6.4

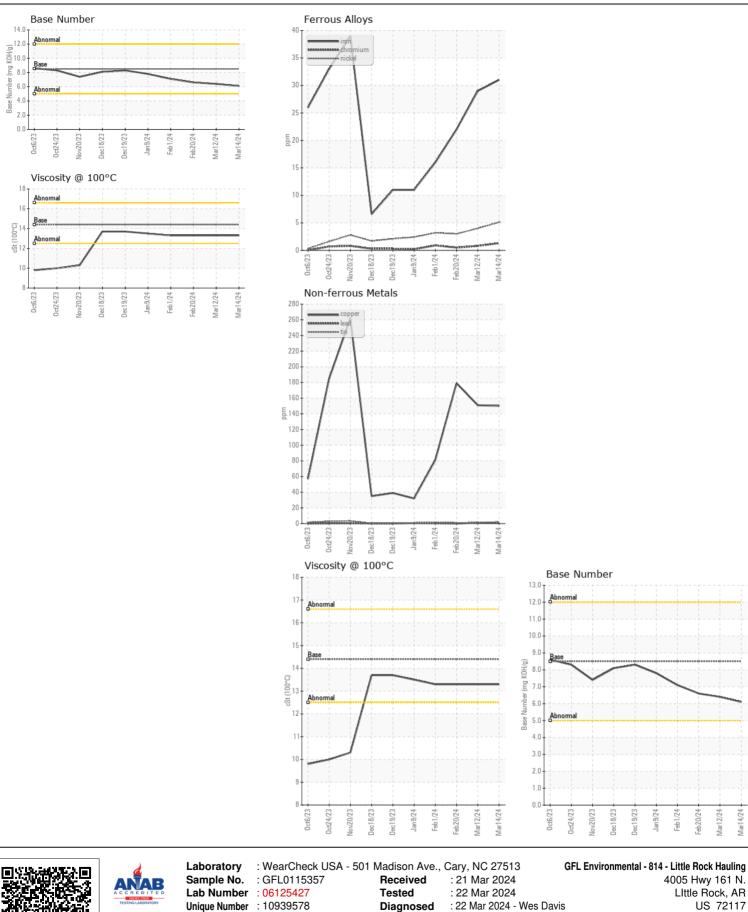
13.3

6.1

13.3

6.6

13.3



Certificate 12367 Test Package : FLEET 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)

Contact: Michael Lovin

mlovin@gflenv.com

Т:

F: