

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

DILJEL ENGINE OIL JAL 40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		GFL0110889	GFL0110918	GFL0090965
	Sample Date		Client Info		20 Feb 2024	01 Feb 2024	09 Jan 2024
	Machine Age	hrs	Client Info		1180	1035	883
	Oil Age	hrs	Client Info		145	152	115
	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	22	16	11
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	3	3	2
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	1	1	1
	Aluminum	ppm	ASTM D5185m	>20	1	1	2
	Lead	ppm	ASTM D5185m	>40	0	<1	<1
	Copper	ppm	ASTM D5185m	>330	179	81	32
	Tin	ppm	ASTM D5185m	>15	<1	1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	8	9
	Potassium	ppm	ASTM D5185m	>20	1	2	2
There is no indication of any contamination in the oil.	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	0.4	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	8.7	7.9	6.9
	Sulfation	Abs/.1mm	*ASTM D7415		20.1	19.9	19.1
	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	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>216	3	2	2
The DN second is directed at the table of the solution is all of the directed second in the	Boron	ppm	ASTM D5185m	250	11	10	18
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	61	58	62
	Manganese	ppm	ASTM D5185m		1	1	<1
	Magnesium	ppm	ASTM D5185m		916	871	945
	Calcium	ppm		3000	1024	1048	1051
	Phosphorus	ppm	ASTM D5185m		983	1099	1081
	Zinc	ppm	ASTM D5185m		1198	1091	1266
	Sulfur	ppm	ASTM D5185m		2527	3171	3059
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	15.8	15.3

Visc @ 100°C cSt

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

ASTM D445 14.4

7.1

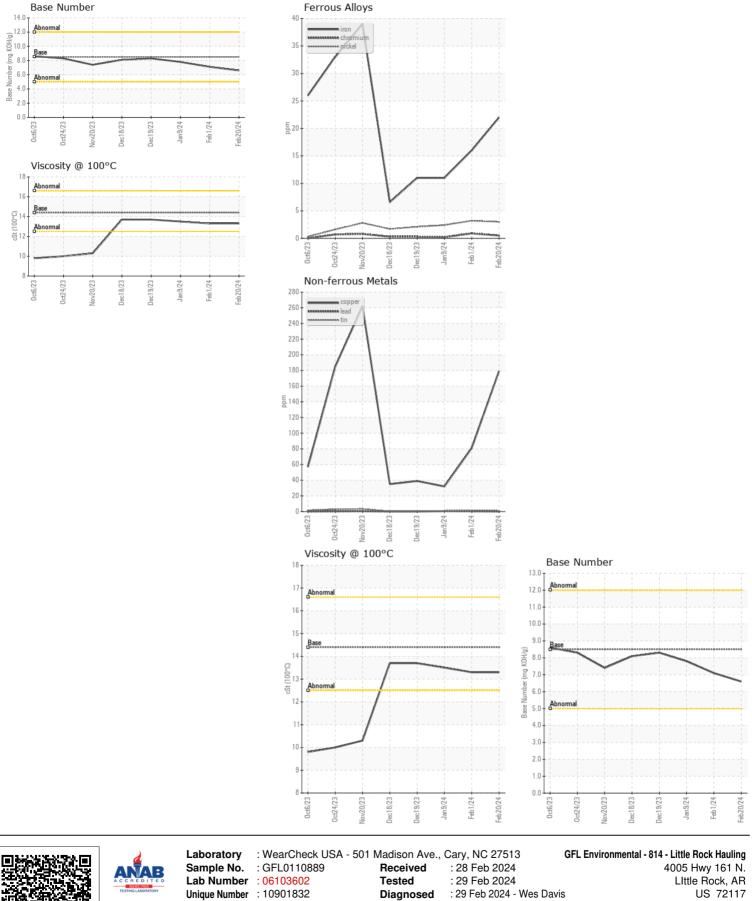
13.3

6.6

13.3

7.8

13.5



 Certificate 12367
 Test Package
 : FLEET

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
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 - 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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