

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

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## Area (ML7040) 2730 Machine Id 813031 Component Diesel Engine

**IESEL ENGINE OIL SAE 40 (--- GAL)** 

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.	Test Sample Number	UOM	Method Client Info	Limit/Abn	Current GFL0119055	History1 GFL0112169	History2 GFL0098054
	Sample Date		Client Info		11 Apr 2024	18 Mar 2024	22 Jan 2024
	Machine Age	hrs	Client Info		1119	1119	1119
	Oil Age	hrs	Client Info		1119	1119	1119
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	ABNORMAL	ABNORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>120	8	71	55
	Chromium	ppm	ASTM D5185m	>20	<1	3	2
	Nickel	ppm	ASTM D5185m	>5	5	🔺 32	<u> </u>
	Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
	Silver	ppm	ASTM D5185m	>2	0	<1	0
	Aluminum	ppm	ASTM D5185m	>20	2	3	3
	Lead	ppm	ASTM D5185m		<1	2	1
	Copper	ppm	ASTM D5185m		11	52	42
	Tin	ppm	ASTM D5185m	>15	1	4	4
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	19	17
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	8	5
	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>4	0.2	0.9	0.8
	Nitration	Abs/cm	*ASTM D7624	>20	6.0	12.2	11.4
	Sulfation	Abs/.1mm	*ASTM D7415		18.5	23.3	23.0
	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	<1	1	4
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		11	10	9
	Barium	ppm	ASTM D5185m		0	1	0
	Molybdenum	ppm	ASTM D5185m	100	65	77	67
	Manganese	ppm	ASTM D5185m	1=0	<1	4	3
	Magnesium	ppm	ASTM D5185m		974	863	826
	Calcium	ppm	ASTM D5185m		1149	1171	1096
	Phosphorus	ppm	ASTM D5185m		1102	849	832
	Zinc	ppm	ASTM D5185m		1232	1103	1022
	Sulfur	ppm	ASTM D5185m	4250	3340	2010	1642

Oxidation

Visc @ 100°C cSt

Abs/.1mm \*ASTM D7414 >25

ASTM D445 14.4

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

22.4

4.0

12.9

21.5

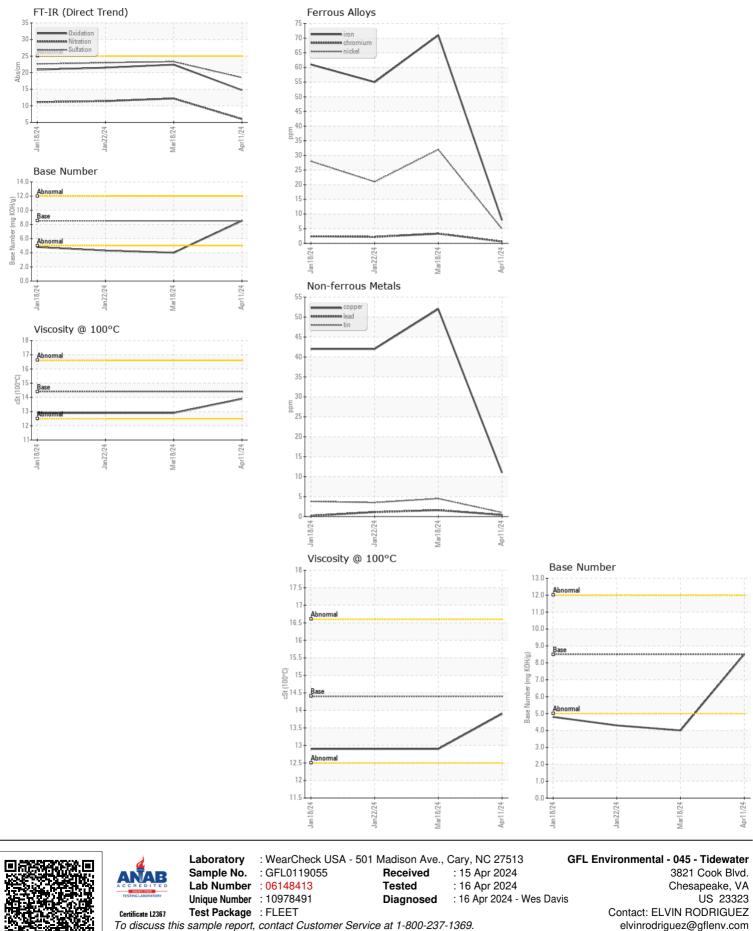
4.3

12.9

14.7

8.5

13.9



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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