

WEARNORMALCONTAMINATIONNORMALFLUID CONDITIONNORMAL

Machine Id **1445** Component **Diesel Engine** Fluid **MOBIL 1 5W30 (--- GAL)**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the	Sample Number		Client Info		WC0827797	WC0827778	WC0827753
component make and model with your next sample.	Sample Date		Client Info		04 May 2024	03 Feb 2024	23 Sep 2023
······································	Machine Age	mls	Client Info		97962	91324	84217
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	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	36	41	39
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1	2	<1
	Nickel	ppm	ASTM D5185m		<1	2	<1
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	0	<1	0
	Aluminum	ppm	ASTM D5185m		4	4	5
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		27	33	34
	Tin	ppm	ASTM D5185m		<1	<1	<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		9	10	9
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	3	1
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	12.9	13.2 25.8	13.6 26.5
	Sulfation Silt	Abs/.1mm	*ASTM D7415		24.8 NONE	25.6 NONE	26.5 NONE
	Debris	scalar scalar	*Visual *Visual	NONE 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		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		6	3	6
The DN second is directed that the second	Boron	ppm	ASTM D5185m	94	26	22	27
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	0.0	0	0	<1
	Molybdenum	ppm	ASTM D5185m	0.0	73	82	93
	Manganese	ppm	ASTM D5185m		<1	2	<1
	Magnesium	ppm	ASTM D5185m	1388	497	545	658
	Calcium	ppm	ASTM D5185m		1047	878	715
	Phosphorus	ppm	ASTM D5185m		667	623	630
	Zinc	ppm	ASTM D5185m		790	741	778
	Sulfur	ppm	ASTM D5185m		2598	2554	1902
	Oxidation	Abs/.1mm	*ASTM D7414	>25	21.3	22.0	24.7

Base Number (BN) mg KOH/g ASTM D2896

ASTM D445 11.3

Visc @ 100°C cSt

4.5

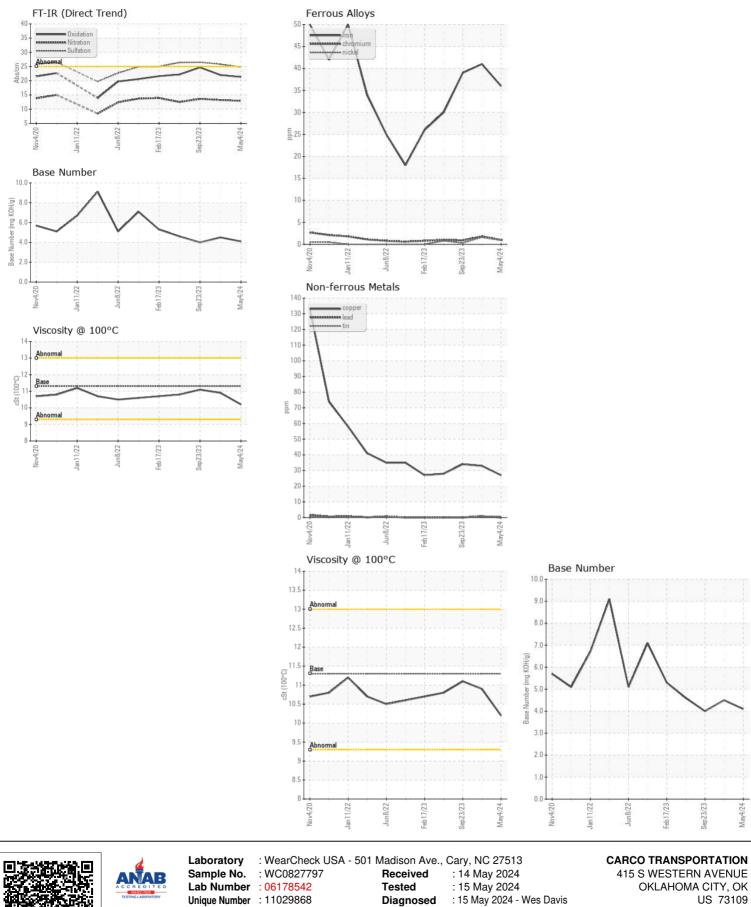
10.9

4.0

11.1

4.1

10.2



Unique Number : 1102986 Certificate 12367 Test Package : FLEET To discuss this sample report, contact Co * - Denotes test methods that are outside

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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