

## WEARNORMALCONTAMINATIONNORMALFLUID CONDITIONNORMAL

## Machine Id **1443** Component Front Diesel Engine Fluid MOBIL 1 5W30 (--- QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the	Sample Number		Client Info		WC0827793	WC0827830	WC0827758
component make and model with your next sample.	Sample Date		Client Info		04 May 2024	29 Feb 2024	27 Sep 2023
component mate and model manyour next earlpie.	Machine Age	mls	Client Info		88600	83217	77539
	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	21	24	28
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
	Nickel	ppm	ASTM D5185m	>4	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	4	3	4
	Lead	ppm	ASTM D5185m	>40	0	0	<1
	Copper	ppm	ASTM D5185m	>330	24	30	40
	Tin	ppm	ASTM D5185m	>15	<1	0	1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	10	8	9
	Potassium	ppm	ASTM D5185m	>20	3	<1	4
There is no indication of any contamination in the oil.	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	11.4	12.9	14.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1	24.8	26.4
	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		13	4	8
	Boron	ppm	ASTM D5185m	94	39	35	30
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
	Molybdenum	ppm	ASTM D5185m		70	69	95
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1388	490	480	649
	Calcium	ppm	ASTM D5185m		1182	1192	747
	Phosphorus	ppm	ASTM D5185m		705	736	610
	Zinc	ppm	ASTM D5185m		858	912	777
	Sulfur	ppm	ASTM D5185m		2666	2192	1934
	Oxidation		*ASTM D7414		18.7	20.7	25.2
	Deep Number (DN)			-	4.0	4.0	4.0

Base Number (BN) mg KOH/g ASTM D2896

ASTM D445 11.3

Visc @ 100°C cSt

4.6

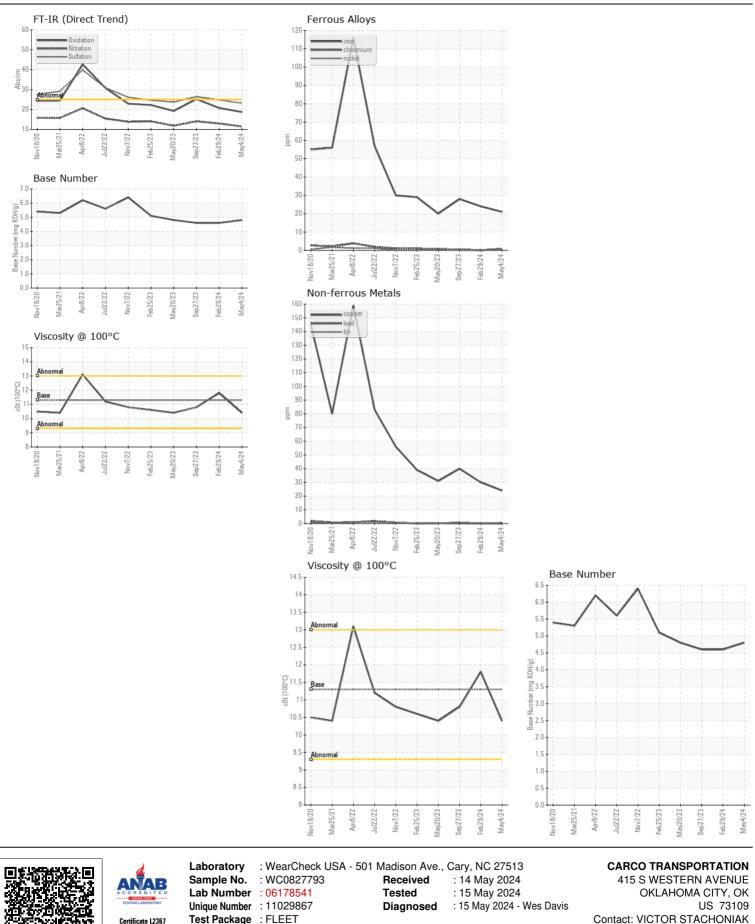
11.8

4.6

10.8

4.8

10.4



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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