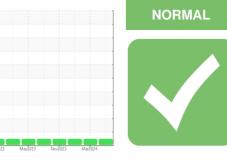


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

#### **1710** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the oil.

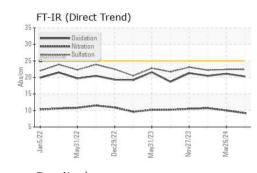
#### Fluid Condition

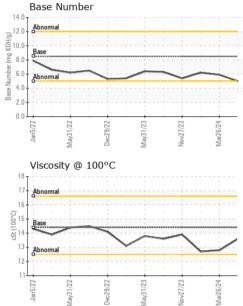
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0887559	HRE0000121	WC0844967
Sample Date		Client Info		29 May 2024	26 Mar 2024	02 Feb 2024
Machine Age	mls	Client Info		0	221593	216320
Oil Age	mls	Client Info		0	6000	6000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	11	8	9
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m	~	۰ <1	2	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	7	2	5
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m	210	0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES	le le	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	120	110	14
Barium	ppm		10	0	0	10
Molybdenum	ppm	ASTM D5185m	100	72	68	61
Manganese	ppm	ASTM D5185m	100	0	<1	0
Magnesium	ppm	ASTM D5185m	450	387	334	328
Calcium	ppm	ASTM D5185m	3000	1487	1541	1586
Phosphorus	ppm	ASTM D5185m	1150	959	998	961
Zinc	ppm	ASTM D5185m	1350	1180	1104	1113
Sulfur	ppm	ASTM D5185m	4250	3456	3249	3332
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	12	9	6
Sodium	ppm	ASTM D5185m	>158	2	2	4
Potassium	ppm	ASTM D5185m	>20	0	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	9.2	10.0	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	22.4	22.2
FLUID DEGRADA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.3	21.1	20.5
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.0	5.9	6.2
. /						



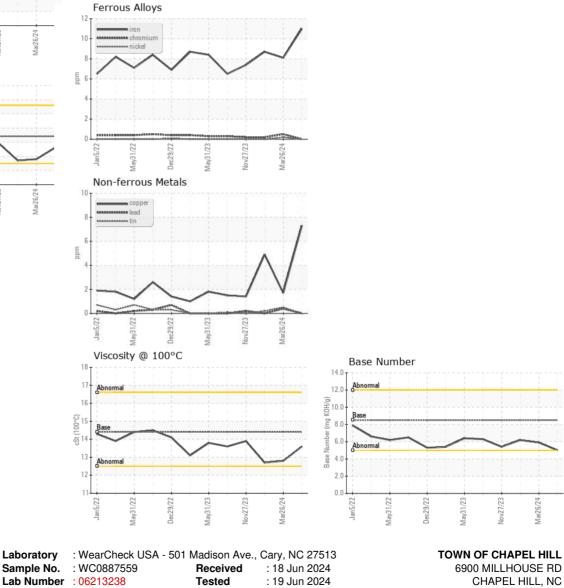
# **OIL ANALYSIS REPORT**





VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.6	12.8	12.7

GRAPHS





Report Id: TOWCHANC [WUSCAR] 06213238 (Generated: 06/21/2024 18:26:18) Rev: 1

Unique Number : 11086102 Diagnosed : 19 Jun 2024 - Wes Davis Test Package : FLEET Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. ldepasqua@townofchapelhill.org \* - 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/Location: Lisa DePasqua - TOWCHANC

F:

US 27516

Contact: Lisa DePasqua

T: (919)696-4941