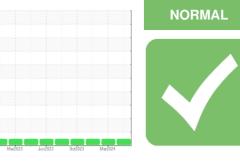


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id **1962** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 5W30 (--- 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.

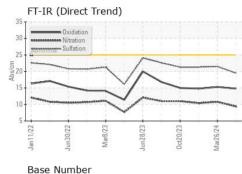
#### Fluid Condition

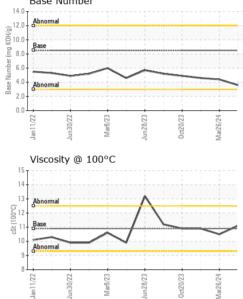
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0887570	HRE0000100	WC0844965
Sample Date		Client Info		30 May 2024	26 Mar 2024	28 Dec 2023
Machine Age	mls	Client Info		792206	75115	0
Oil Age	mls	Client Info		0	6000	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	11	12	10
Chromium	ppm	ASTM D5185m	>20	0	1	<1
Nickel		ASTM D5185m	>4	0	1	<1
Titanium	ppm ppm	ASTM D5185m	~	ں <1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	3	2
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	0	1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m	210	0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES	ppm	method	limit/base	current	history1	history2
		ASTM D5185m			34	30
Boron Barium	ppm	ASTM D5185m	250 10	34 0	<1	4
	ppm	ASTM D5185m	100	155	188	210
Molybdenum Manganese	ppm	ASTM D5185m	100	155	5	3
Magnesium	ppm	ASTM D5185m	450	609	558	617
Calcium	ppm	ASTM D5185m	3000	1494	1194	1180
Phosphorus	ppm	ASTM D5185m	1150	750	629	594
Zinc	ppm ppm	ASTM D5185m	1350	930	715	697
Sulfur	ppm	ASTM D5185m	4250	3392	2672	2857
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon		ASTM D5185m			· · · · · · · · · · · · · · · · · · ·	
Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>25	15 <1	21 0	18 0
Potassium	ppm	ASTM D5185m	>20	<1	2	2
INFRA-RED	ppm	method	limit/base	current	2 history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0	0
Nitration	Abs/cm	*ASTM D7624		9.4	10.8	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	21.5	21.3
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	15.3	14.8
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	3.6	4.4	4.6

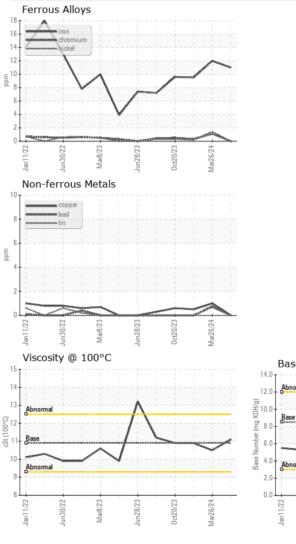


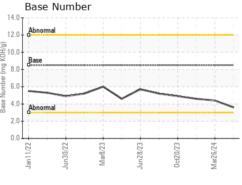
# **OIL ANALYSIS REPORT**

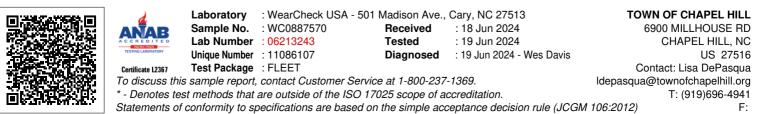




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	10.9	11.1	10.5	10.9
CDADUS						







Report Id: TOWCHANC [WUSCAR] 06213243 (Generated: 06/21/2024 18:28:59) Rev: 1

Contact/Location: Lisa DePasqua - TOWCHANC