

OIL ANALYSIS REPORT

Sample Rating Trend





Eluid DIESEL ENGINE OIL SAE 5W30 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

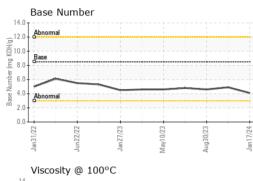
Fluid Condition

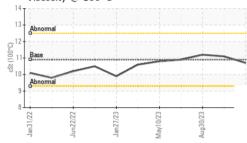
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Jan2022	Jun2022 Jan2023	May2023 Aug2023	Jan 2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0810299	WC0845023	WC0845022
Sample Date		Client Info		17 Jan 2024	20 Nov 2023	30 Aug 2023
Machine Age	mls	Client Info		75284	71012	66861
Dil Age	mls	Client Info		6000	6000	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
-uel		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
ron	ppm	ASTM D5185m	>100	8	6	7
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	5	3
_ead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Гin	ppm	ASTM D5185m	>15	0	0	0
/anadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	29	25	17
Barium	ppm	ASTM D5185m	10	4	0	2
Volybdenum	ppm	ASTM D5185m	100	207	199	204
Vanganese	ppm	ASTM D5185m		3	2	<1
Vagnesium	ppm	ASTM D5185m	450	611	644	593
Calcium	ppm	ASTM D5185m	3000	1193	1186	1204
Phosphorus	ppm	ASTM D5185m	1150	589	584	560
Zinc	ppm	ASTM D5185m	1350	708	774	738
Sulfur	ppm	ASTM D5185m	4250	2765	2645	2565
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	18	11	17
Sodium	ppm	ASTM D5185m		0	1	2
Potassium	ppm	ASTM D5185m	>20	2	2	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0	0.1	0
Nitration	Abs/cm	*ASTM D7624		10.9	11.7	11.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	22.9	22.4
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	17.0	17.1
Base Number (BN)	mg KOH/g	ASTM D2896		4.1	4.9	4.6
	ing torily	10 IN D2000	0.0	7.1	1.0	4.0

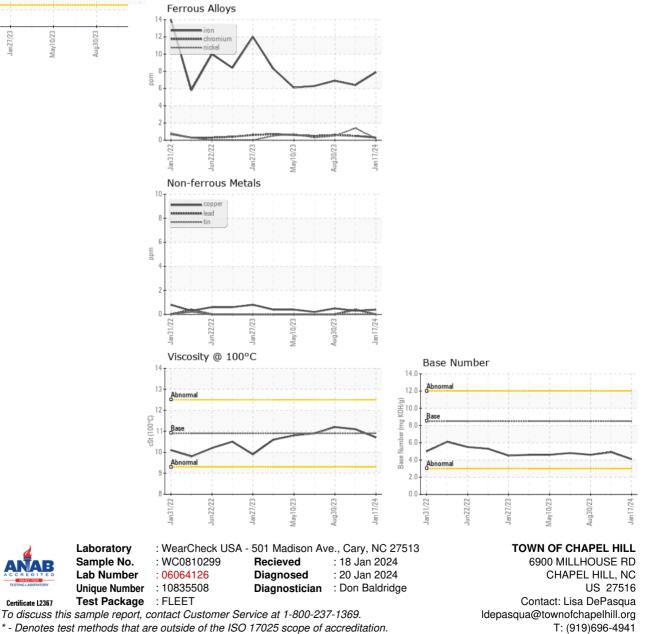


OIL ANALYSIS REPORT





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	10.7	11.1	11.2
GRAPHS						



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

ŕŠ

Contact/Location: Lisa DePasqua - TOWCHANC

F: