

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 1801 Component **Diesel Engine** DIESEL ENGINE OIL SAE 15W40 (--- GAL)

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

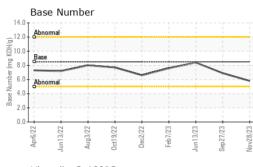
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

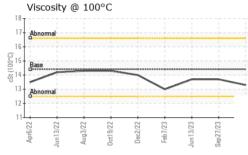
SAMPLE INFORM			i2022 Aug2022 Oct2022	Dec2022 Feb2023 Jun2023 Sep20		history?
	ATION	method	iiiiii/base		history1	history2
Sample Number		Client Info Client Info		WC0860442 28 Nov 2023	WC0844944	WC0827020
Sample Date Machine Age	mls	Client Info		167808	27 Sep 2023 162355	13 Jun 2023 156926
-	mls	Client Info		6000	6000	0
Oil Changed	1113	Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
						· · · · · ·
Fuel Water		WC Method	>5	<1.0 NEG	<1.0 NEG	<1.0 NEG
Glycol		WC Method	20.2	NEG	NEG	NEG
WEAR METALS			lipait/le a com	-		
		method	limit/base	current	history1	history2
	ppm	ASTM D5185m	>100	5 0	6	5
	ppm	ASTM D5185m	>20	0	<1	0
	ppm	ASTM D5185m ASTM D5185m	>4	-	0	0
	ppm	ASTM D5185m	>3	<1 0	<1 0	0
	ppm ppm	ASTM D5185m		5	5	2
	ppm	ASTM D5185m	>40	0	0	0
-	ppm	ASTM D5185m		4	2	<1
	ppm	ASTM D5185m	>15	- <1	<1	0
	ppm	ASTM D5185m	10	<1	0	0
.	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	202	15	7
Barium	ppm	ASTM D5185m	10	0	2	0
Molybdenum	ppm	ASTM D5185m	100	74	83	71
,	ppm	ASTM D5185m		<1	<1	0
	ppm	ASTM D5185m	450	326	255	407
Calcium	ppm	ASTM D5185m	3000	1412	1857	1851
Phosphorus	ppm	ASTM D5185m	1150	930	973	1025
Zinc	ppm	ASTM D5185m	1350	1137	1186	1286
Sulfur	ppm	ASTM D5185m	4250	3055	3247	4008
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	8	5
	ppm	ASTM D5185m	>158	4	6	5
Potassium	ppm	ASTM D5185m	>20	<1	0	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.2	9.0	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	19.1	20.6
FLUID DEGRADAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	15.5	17.5
	mg KOH/g	ASTM D2896	8.5	5.8	6.9	8.4
()	0					

Page 1 of 2

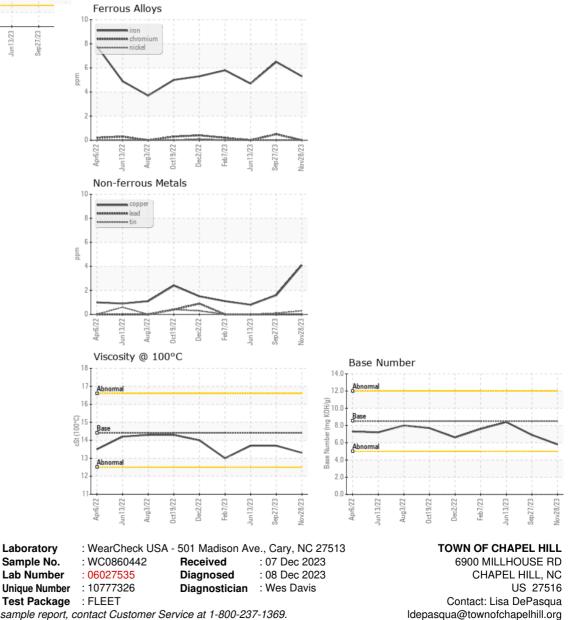


OIL ANALYSIS REPORT





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	13.3	13.7	13.7
GRAPHS						



 Certificate L2367
 Test Package
 : FLEET

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 Ide

 * - 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)

F:

T: (919)696-4941