

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **1704** 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.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

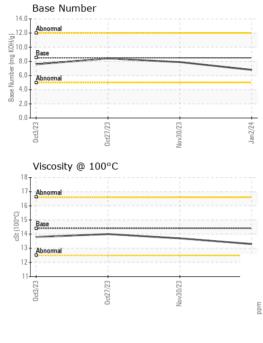
Fluid Condition

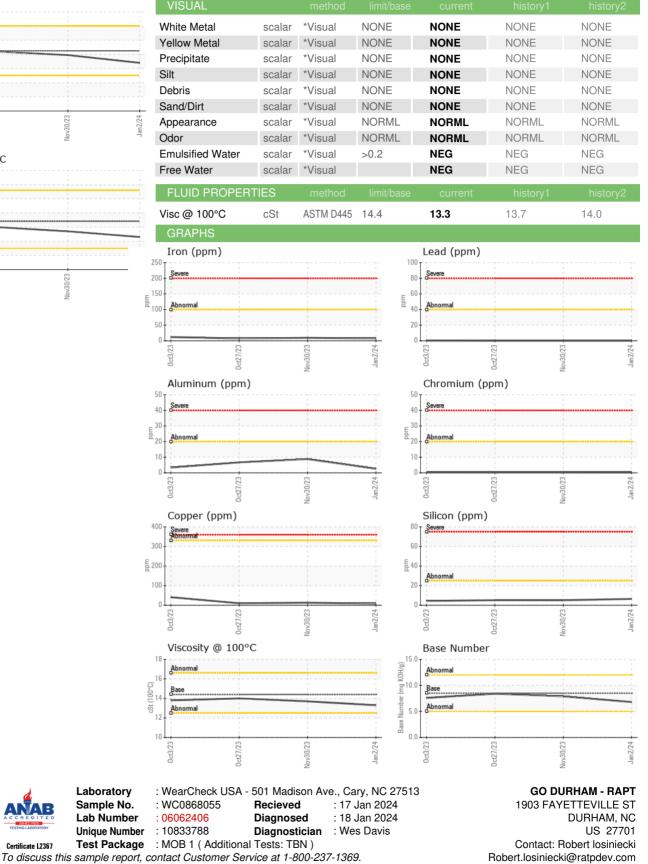
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Oil Age n Oil Changed n Sample Status n CONTAMINATION Fuel Water Glycol WEAR METALS Iron	mls mls	method Client Info Client Info Client Info Client Info Client Info WC Method WC Method WC Method	limit/base limit/base >5 >0.2	current WC0868055 02 Jan 2024 0 0 N/A NORMAL current	history1 WC0868105 30 Nov 2023 410943 0 N/A NORMAL history1	history2 WC0855926 27 Oct 2023 105070 0 N/A NORMAL history2
Sample Date Machine Age n Oil Age n Oil Changed Sample Status 4 CONTAMINATION Fuel 4 Water 6 Glycol 4 WEAR METALS 1		Client Info Client Info Client Info Client Info Method WC Method	>5	02 Jan 2024 0 0 N/A NORMAL	30 Nov 2023 410943 0 N/A NORMAL history1	27 Oct 2023 105070 0 N/A NORMAL
Machine AgenOil AgenOil ChangednSample StatusnCONTAMINATIONnFuelnWaternGlycolnWEAR METALSnIronn		Client Info Client Info Client Info WC Method WC Method	>5	0 0 N/A NORMAL	410943 0 N/A NORMAL history1	105070 0 N/A NORMAL
Oil Age n Oil Changed Sample Status CONTAMINATION Fuel Water Glycol WEAR METALS		Client Info Client Info method WC Method WC Method	>5	0 N/A NORMAL current	0 N/A NORMAL history1	0 N/A NORMAL
Oil Changed Sample Status CONTAMINATION Fuel Water Glycol WEAR METALS	mls	Client Info method WC Method WC Method	>5	N/A NORMAL current	N/A NORMAL history1	N/A NORMAL
Sample Status CONTAMINATION Fuel Water Glycol WEAR METALS Iron p		method WC Method WC Method	>5	NORMAL	NORMAL history1	NORMAL
CONTAMINATION Fuel Water Glycol WEAR METALS Iron p		WC Method WC Method	>5	current	history1	-
Fuel Water Glycol WEAR METALS Iron p		WC Method WC Method	>5			history2
Water Glycol WEAR METALS Iron p		WC Method				
Glycol WEAR METALS Iron p			>0.2	<1.0	<1.0	<1.0
WEAR METALS		WC Method		NEG	NEG	NEG
lron p				NEG	NEG	NEG
		method	limit/base	current	history1	history2
Chromium p	opm	ASTM D5185m	>100	7	9	7
	opm	ASTM D5185m	>20	<1	<1	<1
Nickel p	opm	ASTM D5185m	>4	0	0	0
Titanium p	opm	ASTM D5185m		0	<1	0
Silver p	opm	ASTM D5185m	>3	0	0	0
Aluminum p	opm	ASTM D5185m	>20	3	9	7
Lead p	opm	ASTM D5185m	>40	0	0	0
Copper p	opm	ASTM D5185m	>330	8	13	10
Tin p	opm	ASTM D5185m	>15	0	0	<1
Vanadium p	opm	ASTM D5185m		<1	0	0
Cadmium p	opm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron p	opm	ASTM D5185m	250	<1	2	4
Barium p	opm	ASTM D5185m	10	0	0	0
Molybdenum p	opm	ASTM D5185m	100	57	60	58
Manganese p	opm	ASTM D5185m		<1	0	<1
Magnesium p	opm	ASTM D5185m	450	970	934	927
Calcium p	opm	ASTM D5185m	3000	1047	1095	1105
Phosphorus p	opm	ASTM D5185m	1150	985	926	1025
Zinc p	opm	ASTM D5185m	1350	1249	1197	1292
Sulfur p	opm	ASTM D5185m	4250	2954	3156	2973
CONTAMINANTS		method	limit/base	current	history1	history2
	opm	ASTM D5185m	>25	6	5	5
Sodium p	opm	ASTM D5185m	>158	2	0	<1
Potassium p	opm	ASTM D5185m	>20	<1	2	0
INFRA-RED		method	limit/base	current	history1	history2
	%	*ASTM D7844	>3	0.3	0.3	0.4
Nitration A	Abs/cm	*ASTM D7624	>20	8.3	7.6	7.5
Sulfation A	Abs/.1mm	*ASTM D7415	>30	23.1	20.0	20.5
FLUID DEGRADATI	ION	method	limit/base	current	history1	history2
Oxidation A	Abs/.1mm	*ASTM D7414	>25	24.4	17.9	17.3
Base Number (BN)	ng KOH/g	ASTM D2896	8.5	6.8	7.9	8.4



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^{* -} 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)

Certificate L2367

Laboratory

Sample No.

Lab Number

Unique Number

T:

F: