

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id

1508 (S/N 3WXDDU9XX7F164995)

Diesel Engine

Fluid SHELL ROTELLA T 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.

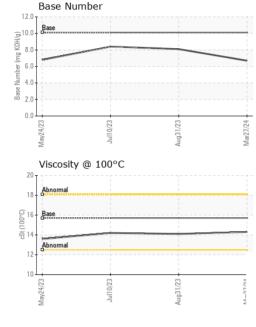
Fluid Condition

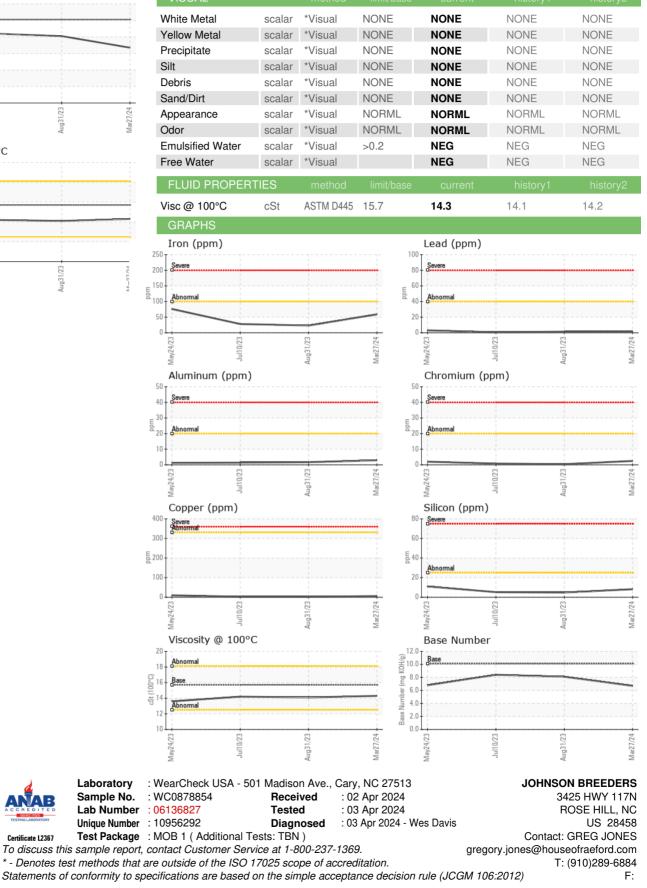
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

	ATION mls mls	method Client Info Client Info Client Info Client Info Client Info Method	limit/base	current WC0878854 27 Mar 2024 978116 0 Changed NORMAL	history1 WC0822277 31 Aug 2023 879606 0 Changed	history2 WC0613634 10 Jul 2023 870869 0 Changed
Sample Date Machine Age In Oil Age In Oil Changed Sample Status CONTAMINATION Fuel Water Glycol		Client Info Client Info Client Info Client Info method	limit/base	27 Mar 2024 978116 0 Changed	31 Aug 2023 879606 0 Changed	10 Jul 2023 870869 0
Machine Age n Oil Age n Oil Changed Sample Status CONTAMINATION Fuel Water Glycol		Client Info Client Info Client Info method	limit/base	978116 0 Changed	879606 0 Changed	870869 0
Oil Age n Oil Changed Sample Status CONTAMINATION Fuel Water Glycol		Client Info Client Info method	limit/base	0 Changed	0 Changed	0
Oil Changed Sample Status CONTAMINATION Fuel Water Glycol	mls	Client Info method	limit/base	Changed	Changed	÷
Sample Status CONTAMINATION Fuel Water Glycol		method	limit/base	-		Changed
CONTAMINATION Fuel Water Glycol			limit/base	NORMAL		Unangeu
Fuel Water Glycol			limit/base		NORMAL	NORMAL
Water Glycol		MC Mathad	mmbbabb	current	history1	history2
Glycol		WC Method	>5	<1.0	<1.0	<1.0
-		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		WC Method		NEG	NEG	NEG
		method	limit/base	current	history1	history2
Iron p	opm	ASTM D5185m	>100	59	23	28
Chromium p	opm	ASTM D5185m	>20	2	<1	<1
Nickel p	opm	ASTM D5185m	>4	<1	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	2	1
Lead p	opm	ASTM D5185m	>40	2	1	<1
Copper p	opm	ASTM D5185m	>330	6	2	3
Tin p	opm	ASTM D5185m	>15	1	<1	<1
Vanadium p	opm	ASTM D5185m		<1	<1	0
Cadmium p	opm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron p	opm	ASTM D5185m	316	7	19	24
Barium p	opm	ASTM D5185m	0.0	0	0	0
Molybdenum p	opm	ASTM D5185m	1.2	50	54	63
Manganese p	opm	ASTM D5185m		<1	<1	<1
Magnesium p	opm	ASTM D5185m	24	673	607	758
Calcium p	opm	ASTM D5185m	2292	1727	1657	1722
Phosphorus p	opm	ASTM D5185m	1064	1111	977	1165
Zinc p	opm	ASTM D5185m	1160	1366	1236	1419
Sulfur p	opm	ASTM D5185m	4996	4195	3662	4210
CONTAMINANTS		method	limit/base	current	history1	history2
		ASTM D5185m	>25	8	5	5
		ASTM D5185m		4	5	5
Potassium p	opm	ASTM D5185m	>20	6	3	5
INFRA-RED		method	limit/base	current	history1	history2
	%	*ASTM D7844	>3	0.6	0.8	0.8
Nitration A	Abs/cm	*ASTM D7624	>20	9.1	7.5	8.0
Sulfation A	Abs/.1mm	*ASTM D7415	>30	20.4	20.1	20.9
FLUID DEGRADATI	ION	method	limit/base	current	history1	history2
Oxidation A	Abs/.1mm	*ASTM D7414	>25	15.6	14.7	15.5
Base Number (BN)	ng KOH/g	ASTM D2896	10.1	6.7	8.1	8.4



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Certificate L2367

Contact/Location: GREG JONES - JOHROSNC Page 2 of 2