

# **OIL ANALYSIS REPORT**

## Sample Rating Trend



2581-TRK

Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (--- QTS)

#### 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

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

## **Fluid Condition**

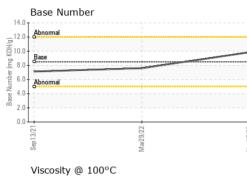
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

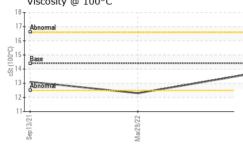
		Seg	2021	Mar2022 Nov20	23	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RW0005080	RW0002975	RW0002036
Sample Date		Client Info		17 Nov 2023	29 Mar 2022	13 Sep 2021
Machine Age	hrs	Client Info		3403	1356	467
Oil Age	hrs	Client Info		0	1356	467
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	MARGINAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<b>2</b> .4	<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	13	42	160
Chromium	ppm	ASTM D5185m	>20	<1	2	4
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>20	5	19	47
Lead	ppm	ASTM D5185m	>40	0	<1	2
Copper	ppm	ASTM D5185m	>330	<1	9	233
Tin	ppm	ASTM D5185m	>15	<1	<1	1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	6	0	43
Barium	ppm	ASTM D5185m	10	0	0	4
Molybdenum	ppm	ASTM D5185m	100	60	58	14
Manganese	ppm	ASTM D5185m		<1	<1	5
Magnesium	ppm	ASTM D5185m	450	922	882	714
Calcium	ppm	ASTM D5185m	3000	1059	1261	1393
Phosphorus	ppm	ASTM D5185m	1150	1114	984	722
Zinc	ppm	ASTM D5185m	1350	1248	1182	856
Sulfur	ppm	ASTM D5185m		3081	2675	2524
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	10	41
Sodium	ppm	ASTM D5185m	>158	2	0	6
Potassium	ppm	ASTM D5185m	>20	11	31	186
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.1	9.7	11.3
Sulfation	Abs/.1mm	*ASTM D7415		18.9	21.6	23
FLUID DEGRADA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	16.9	18.6
Base Number (BN)	mg KOH/g	ASTM D2896	0 5	9.85	7.60	7.13

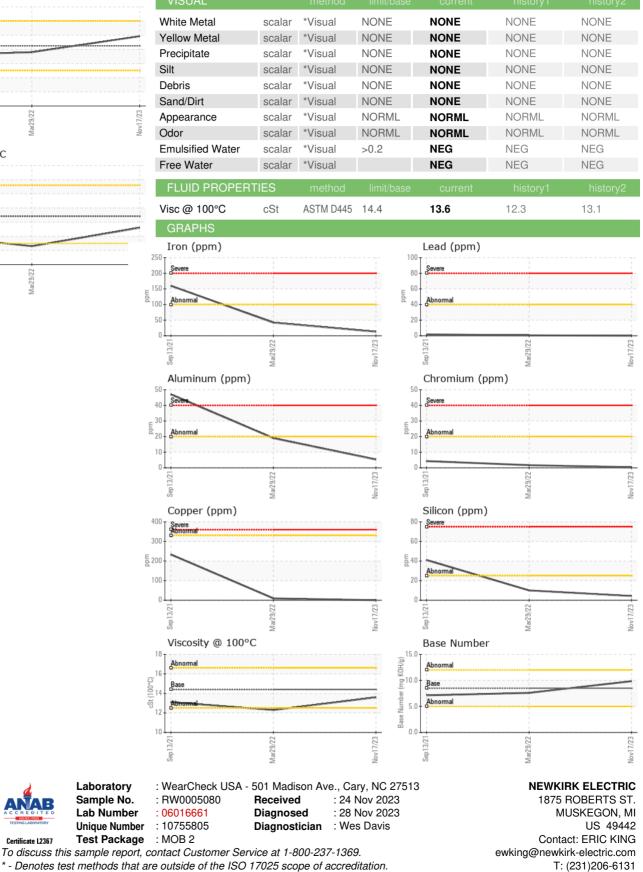
Contact/Location: ERIC KING - NEWMUS



# **OIL ANALYSIS REPORT**







\* - 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

Contact/Location: ERIC KING - NEWMUS

F: (231)724-4090