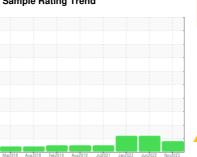


# **OIL ANALYSIS REPORT**

## Sample Rating Trend



**FUEL** 



# INTERNATIONAL 2495

Component

**Diesel Engine** 

**DIESEL ENGINE OIL SAE 15W40 (--- GAL)** 

## **DIAGNOSIS**

#### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

Light fuel dilution occurring.

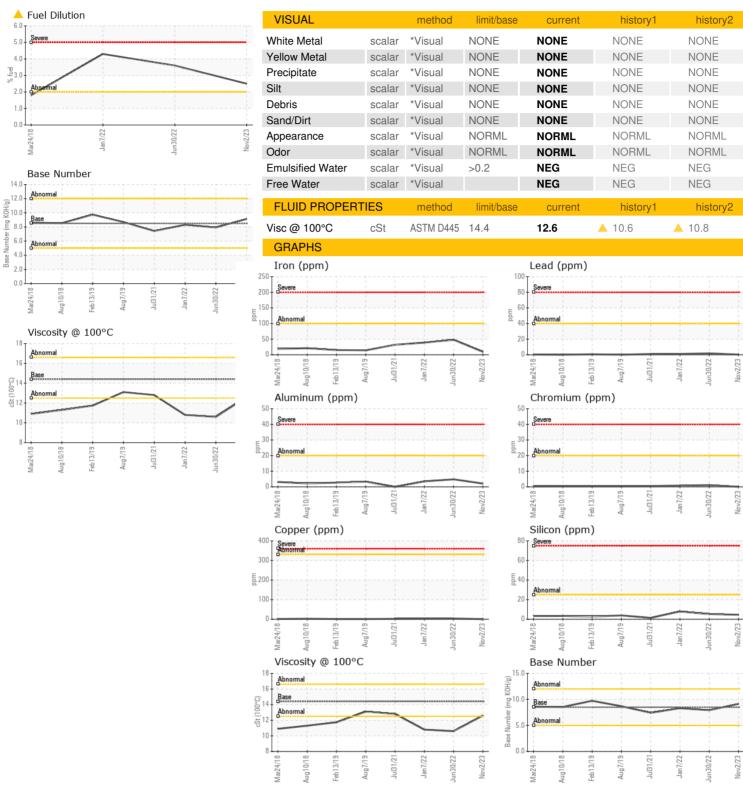
#### **Fluid Condition**

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

		Mar2018 A	ug2018 Feb2019 Aug20	19 Jul2021 Jan2022 Jun2022	Nov2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RW0004878	RW0002799	RW0002700
Sample Date		Client Info		02 Nov 2023	30 Jun 2022	07 Jan 2022
Machine Age	hrs	Client Info		8489	7601	6915
Oil Age	hrs	Client Info		100	687	553
Oil Changed	0	Client Info		Changed	Changed	Changed
Sample Status				MARGINAL	ABNORMAL	ABNORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
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	9	48	39
Chromium	ppm	ASTM D5185m	>20	0	1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	1
Titanium	ppm	ASTM D5185m		5	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	5	4
Lead	ppm	ASTM D5185m	>40	<1	2	1
Copper	ppm	ASTM D5185m	>330	<1	4	3
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	86	22	28
Barium	ppm	ASTM D5185m	10	0	2	<1
Molybdenum	ppm	ASTM D5185m	100	3	56	53
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	575	1058	1083
Calcium	ppm	ASTM D5185m	3000	1385	926	986
Phosphorus	ppm	ASTM D5185m	1150	1067	1054	1122
Zinc	ppm	ASTM D5185m	1350	1148	1282	1299
Sulfur	ppm	ASTM D5185m	4250	3688	3736	3164
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	8
Sodium	ppm	ASTM D5185m	>158	4	8	8
Potassium	ppm	ASTM D5185m	>20	3	2	1
Fuel	%	ASTM D3524	>2.0	<u>^</u> 2.5	▲ 3.6	<b>▲</b> 4.3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.4	10.6	10.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	22.2	22.9
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.0	20.6	20.8
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.13	7.93	8.31



## OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number **Unique Number** 

: RW0004878 : 06016666

: 10755810

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Nov 2023

Diagnosed : 01 Dec 2023 Diagnostician : Jonathan Hester

Test Package : MOB 2 ( Additional Tests: PercentFuel ) To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - 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) **NEWKIRK ELECTRIC** 

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