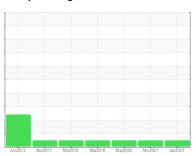


# **OIL ANALYSIS REPORT**

## Sample Rating Trend



## NORMAL



# INGERSOLL RAND 4-55

Component

**Front Diesel Engine** 

**DIESEL ENGINE OIL SAE 15W40 (8 QTS)** 

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil

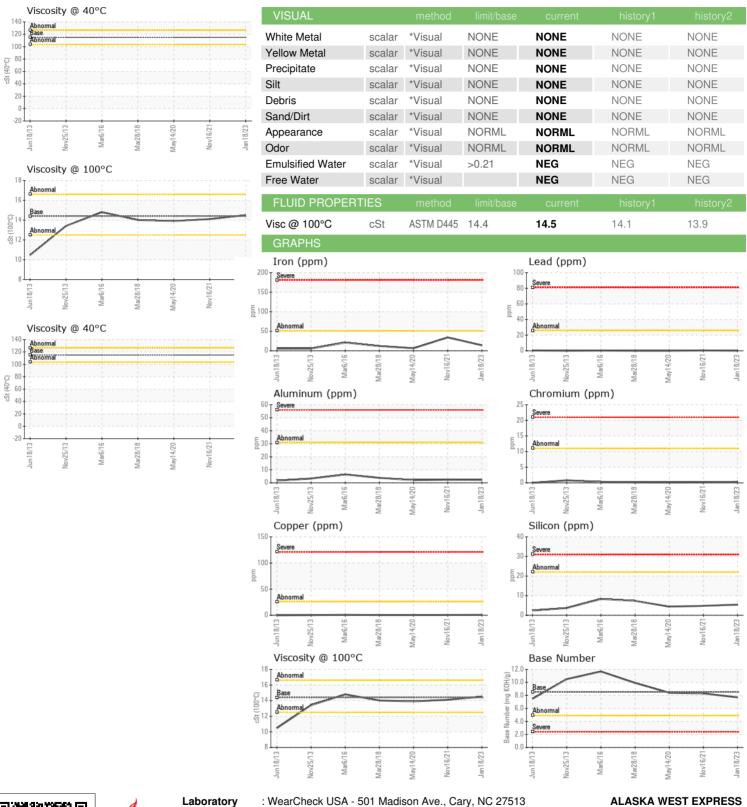
## **Fluid Condition**

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

		Jun2013	Nov2013 Mar2016	Mar2018 May2020 Nov2021	Jan2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0337163	WC0642643	WC0456761
Sample Date		Client Info		18 Jan 2023	16 Nov 2021	14 May 2020
Machine Age	hrs	Client Info		4885	4599	4344
Oil Age	hrs	Client Info		286	96	114
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	14	34	6
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>31	2	2	2
Lead	ppm	ASTM D5185m	>26	0	<1	0
Copper	ppm	ASTM D5185m	>26	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	0	<1	0
Antimony	ppm	ASTM D5185m			0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	111	98	100
Barium	ppm	ASTM D5185m	10	1	0	0
Molybdenum	ppm	ASTM D5185m	100	10	2	7
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	652	836	836
Calcium	ppm	ASTM D5185m	3000	1393	1551	1503
Phosphorus	ppm	ASTM D5185m	1150	696	803	712
Zinc	ppm	ASTM D5185m	1350	853	882	803
Sulfur	ppm	ASTM D5185m	4250	2940	3009	2613
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		5	5	4
Sodium	ppm	ASTM D5185m	>158	3	2	2
Potassium	ppm	ASTM D5185m	>20	4	4	7
		method	limit/base	current	history1	history2
INFRA-RED						
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.1
	% Abs/cm	*ASTM D7844 *ASTM D7624	>3 >20	9.5	0.2 8.6	8.3
Soot %			>20			
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7624	>20	9.5	8.6	8.3
Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30	9.5 19.1	8.6 18.4	8.3 18.3



## OIL ANALYSIS REPORT







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

: WC0337163 : 05746927 : 10306531

Received Diagnosed

: 23 Jan 2023 : 25 Jan 2023

Diagnostician : Jonathan Hester Test Package : MOB 1 (Additional Tests: KV40, TBN)

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) **ALASKA WEST EXPRESS** 

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