

# **OIL ANALYSIS REPORT**

Sample Rating Trend

WEAR

Juntania

CAT 325
Component
Diesel Engine

Fluid

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

### DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

### Wear

Cylinder, crank, or cam shaft wear is indicated. Blower/turbocharger and/or piston wear is indicated.

#### Contamination

There is no indication of any contamination in the oil

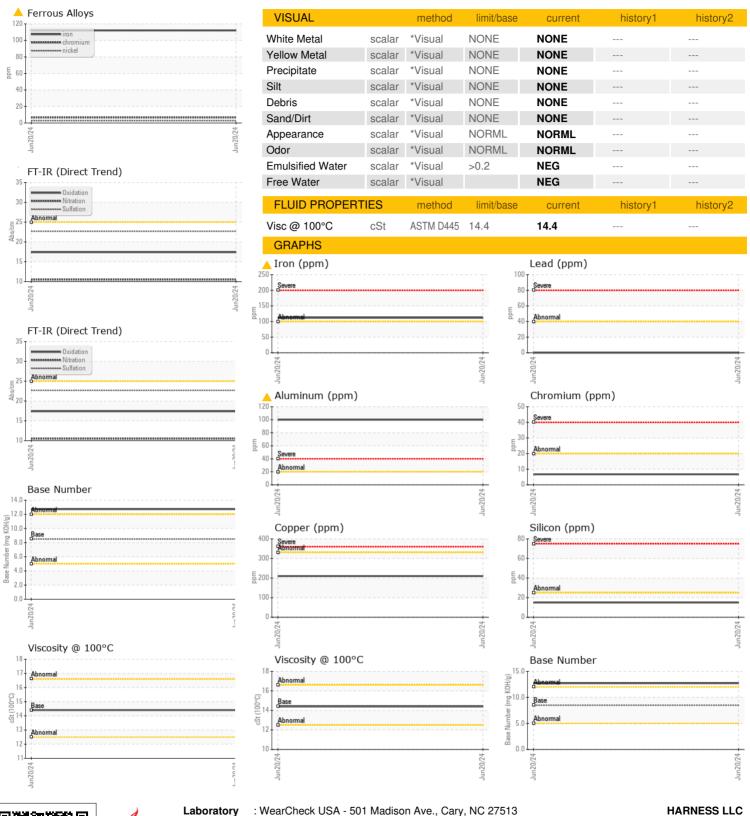
#### **Fluid Condition**

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

				Jun2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0006068		
Sample Date		Client Info		20 Jun 2024		
Machine Age	hrs	Client Info		1562		
Oil Age	hrs	Client Info		500		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<u> </u>		
Chromium	ppm	ASTM D5185m	>20	7		
Nickel	ppm	ASTM D5185m	>4	3		
Titanium	ppm	ASTM D5185m		81		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	<u> </u>		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	210		
Tin	ppm	ASTM D5185m	>15	0		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	40		
Barium	ppm	ASTM D5185m	10	0		
Molybdenum	ppm	ASTM D5185m	100	9		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	450	422		
Calcium	ppm	ASTM D5185m	3000	1823		
Phosphorus	ppm	ASTM D5185m	1150	888		
Zinc	ppm	ASTM D5185m	1350	1261		
Sulfur	ppm	ASTM D5185m	4250	3436		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	15		
Sodium	ppm	ASTM D5185m	>158	2		
Potassium	ppm	ASTM D5185m	>20	7		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5		
Nitration	Abs/cm	*ASTM D7624	>20	10.5		
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4		
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	12.72		



## **OIL ANALYSIS REPORT**





Certificate 12367

Sample No.

: KFS0006068

Lab Number : 06221433

Unique Number : 11099630 Test Package : MOB 2

Received : 26 Jun 2024

> Diagnosed : 28 Jun 2024 - Sean Felton

**Tested** : 27 Jun 2024

US 38401 Contact: BEN HARNESS ben@slectharness.com T: (615)733-4480

855 N JAMES CAMPBELL BLVD

To discuss this sample report, contact Customer Service at 1-800-237-1369.  $^st$  - 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) Report Id: HARCOLTN [WUSCAR] 06221433 (Generated: 06/28/2024 11:37:28) Rev: 1

COLUMBIA, TN