

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# ME-75 CATERPILLAR 980H JMS06112

Diesel Engine

SHELL RIMULA SUPER SAE 15W40 (--- G

#### Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

#### Wear

All component wear rates are normal.

### Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

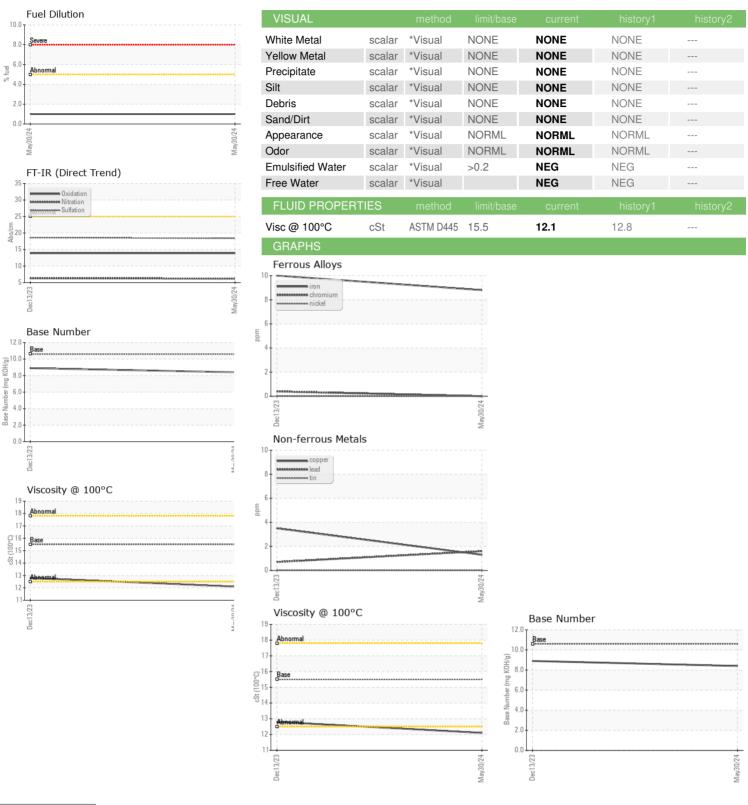
### **Fluid Condition**

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

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L)			Dec2023	May2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0908948	WC0864723	
Sample Date		Client Info		30 May 2024	13 Dec 2023	
Machine Age	hrs	Client Info		27744	27458	
Oil Age	hrs	Client Info		0	0	
Oil Changed	1110	Client Info		Changed	Changed	
Sample Status		Olioni inio		NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water	/ · ·	WC Method	>0.2	NEG	NEG	
		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	9	10	
Chromium	ppm	ASTM D5185m	>20	0	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	<1	1	
Lead	ppm	ASTM D5185m	>40	2	<1	
Copper	ppm	ASTM D5185m	>330	1	4	
Tin	ppm	ASTM D5185m	>15	0	0	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	5	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		64	61	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		662	906	
Calcium	ppm	ASTM D5185m	2840	1754	1119	
Phosphorus	ppm	ASTM D5185m	1150	1186	972	
Zinc	ppm	ASTM D5185m	1270	1460	1210	
Sulfur	ppm	ASTM D5185m	2829	4392	3237	
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	
Sodium	ppm	ASTM D5185m		<1	0	
Potassium	ppm	ASTM D5185m	>20	0	1	
Fuel	%	ASTM D3524	>5	1.0	<1.0	
						history
INFRA-RED		met <u>hod</u>				riistoryz
INFRA-RED	%	method *ASTM D7844			· ·	
Soot %	% Ahs/cm	*ASTM D7844	>3	0.3	0.3	
Soot % Nitration	Abs/cm	*ASTM D7844 *ASTM D7624	>3 >20	0.3 6.2	0.3 6.3	
Soot % Nitration Sulfation	Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>3 >20 >30	0.3 6.2 18.4	0.3 6.3 18.6	
Soot % Nitration Sulfation FLUID DEGRAD	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415 method	>3 >20 >30 limit/base	0.3 6.2 18.4 current	0.3 6.3 18.6 history1	
Soot % Nitration Sulfation	Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>3 >20 >30	0.3 6.2 18.4	0.3 6.3 18.6	



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory

Sample No.

: WC0908948 Lab Number : 06203973

Unique Number : 11071434

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Jun 2024 **Tested** Diagnosed

: 12 Jun 2024 Test Package : CONST ( Additional Tests: FuelDilution, PercentFuel, TBN )

: 12 Jun 2024 - Wes Davis

US 72540 Contact: DANIEL DELGADO daniel.delgado@coviacorp.com T:

**COVIA - GUION - 025** 

**421 MAIN STREET** 

GUION, AR

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)

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