

## **OIL ANALYSIS REPORT**



### [HANSON AGGREGATES VA] CATERPILLAR 972M C330574 (S/N CAT0972MPLSJ01951)

Diesel Engine

{not provided} (--- GAL)

### DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. 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

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

#### 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.

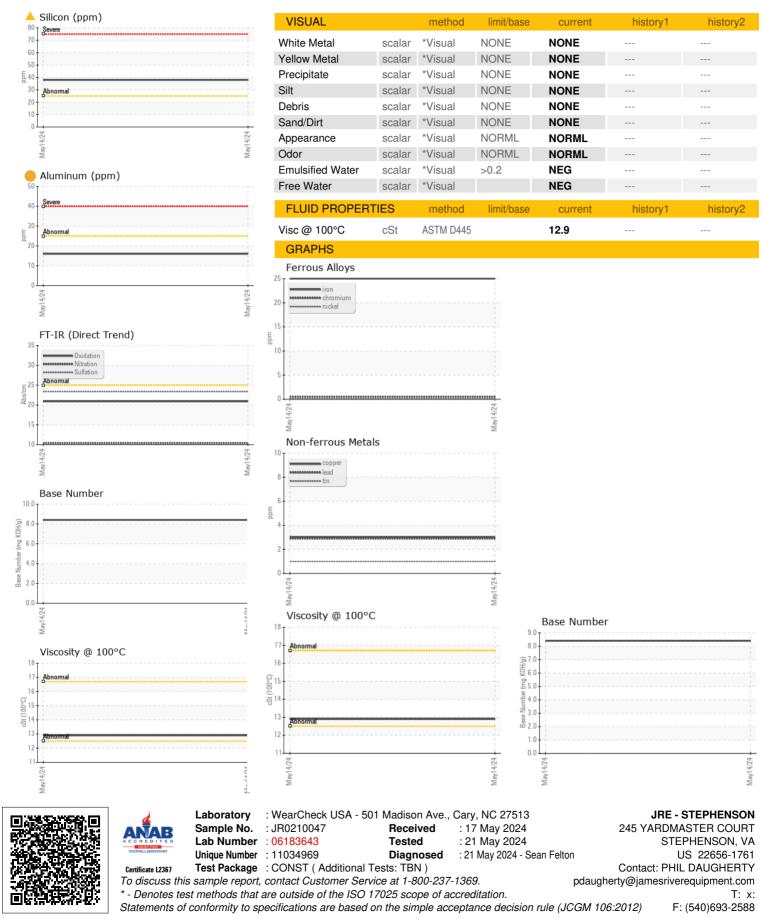
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)		ĸ	I	May2024		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0210047		
Sample Date		Client Info		14 May 2024		
Machine Age	hrs	Client Info		11015		
Dil Age	hrs	Client Info		0		
Dil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
<sup>-</sup> uel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	25		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>25	🦲 16		
₋ead	ppm	ASTM D5185m	>40	3		
Copper	ppm	ASTM D5185m	>330	3		
Гin	ppm	ASTM D5185m	>15	1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		39		
Barium	ppm	ASTM D5185m		0		
Volybdenum	ppm	ASTM D5185m		43		
Vanganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		495		
Calcium	ppm	ASTM D5185m		1900		
Phosphorus	ppm	ASTM D5185m		1029		
Zinc	ppm	ASTM D5185m		1213		
Sulfur	ppm	ASTM D5185m		3597		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<mark>▲</mark> 38		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9		
Nitration	Abs/cm	*ASTM D7624	>20	10.4		
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.4		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.9		
Base Number (BN)	mg KOH/g	ASTM D2896		8.4		







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Contact/Location: PHIL DAUGHERTY - JAMWIN