OIL ANALYSIS REPORT

WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

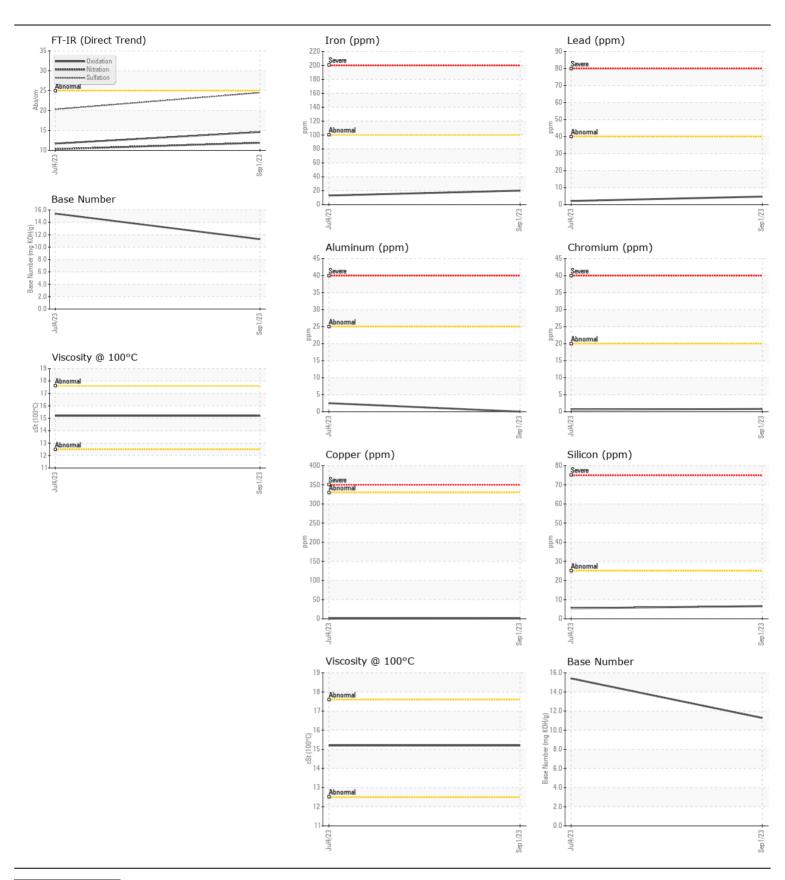
Machine Id

CATERPILLAR 972M L09 A8P00259

Diesel Engine

TRC MOLV YL DRO-SDEC IV YD 15W/0 (7 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor.	Sample Number		Client Info		TR05948275	TR05889799	
	Sample Date		Client Info		01 Sep 2023	04 Jul 2023	
	Machine Age	hrs	Client Info		7992	7533	
	Oil Age	hrs	Client Info		628	169	
	Filter Age	hrs	Client Info		628	169	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	Not Changd	
	Sample Status				NORMAL	NORMAL	
VEAR	Iron	nnm	ASTM D5185m	>100	20	13	
VEAN	Chromium	ppm	ASTM D5185m		<1	<1	
All component wear rates are normal.		ppm					
	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		0	2	
	Lead	ppm	ASTM D5185m		5	2	
	Copper	ppm	ASTM D5185m	>330	<1	<1	
	Tin	ppm	ASTM D5185m	>15	<1	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	6	
OTT / AMINITATION	Potassium	ppm	ASTM D5185m	-	3	1	
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	<i>></i> 0.∠	NEG	NEG	
	Soot %	%	*ASTM D7844	. 2	1.3	0.7	
	Nitration		*ASTM D7624				
		Abs/cm			11.9	10.3	
	Sulfation	Abs/.1mm	*ASTM D7415		24.5	20.3	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		4	3	
	Boron	ppm	ASTM D5185m		0	3	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		127	137	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		26	25	
	Calcium	ppm	ASTM D5185m		4657	4665	
	Phosphorus	ppm	ASTM D5185m		1012	995	
	Zinc	ppm	ASTM D5185m		1215	1168	
	Sulfur		ASTM D5185m		5735	5750	
	Oxidation	ppm Abs/1mm	*ASTM D3163111	> 2F			
	Base Number (BN)	Abs/.1mm		>20	14.6 11.28	11.7	
	Race Nulmner (RNI)	ma KOH/A	A5 11/11/2896		11.28	15.41	





Certificate L2367

Laboratory Sample No.

: TR05948275 Lab Number : 05948275 Unique Number : 10644234 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Sep 2023 **Tested**

: 13 Sep 2023 : 13 Sep 2023 - Wes Davis Diagnosed

BARR-TECH COMPOSTING 9117 KALLENBERGER RD N

SPRAGUE, WA US 99032

Contact: RON GROGAN

To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - 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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