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

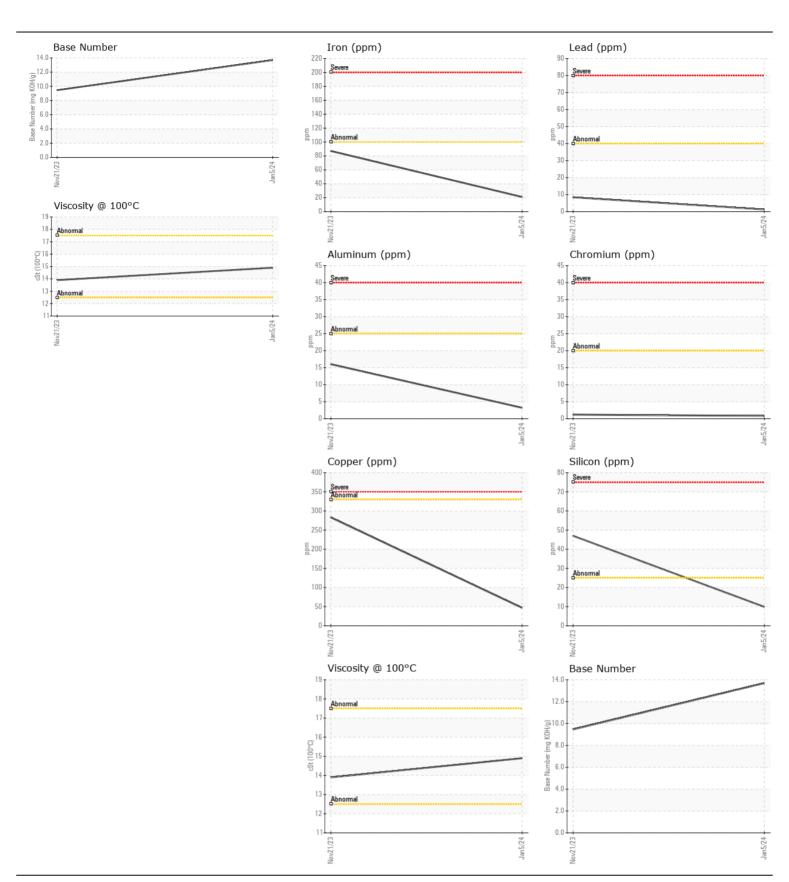
OIL ANALYSIS REPORT

CATERPILLAR 972M L07 L8E00207

Component Diesel Engine

TRC MOLY XL PRO-SPEC IV XP 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
ALCOMINIENDATION	Sample Number	JOIVI	Client Info	LIIIII(/AUII	TR06055069	TR06025348	
Resample at the next service interval to monitor.	Sample Date		Client Info		05 Jan 2024	21 Nov 2023	
	Machine Age	hrs	Client Info		9343	9088	
	Oil Age	hrs	Client Info		255	0	
	Filter Age	hrs	Client Info		255	0	
	Oil Changed	1110	Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	Not Changd	
	Sample Status				NORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	21	87	
WEAT	Chromium	ppm	ASTM D5185m		<1	1	
All component wear rates are normal.	Nickel		ASTM D5185m		<1	<1	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m			<u></u> 16	
		ppm			3		
	Lead	ppm	ASTM D5185m		1	8	
	Copper	ppm	ASTM D5185m		47	283	
	Tin Vanadium	ppm	ASTM D5185m	>10	2 0	6	
		ppm	ASTM D5185m	NONE		<1 NONE	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
<u></u>	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		10	4 7	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	5	2	
	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	1	<u></u> 3	
	Nitration	Abs/cm	*ASTM D7624	>20	8.1	10.8	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	24.6	
	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		0	9	
	Boron	ppm	ASTM D5185m		1	36	
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	1	
	Molybdenum	ppm	ASTM D5185m		123	66	
	Manganese	ppm	ASTM D5185m		<1	2	
	Magnesium	ppm	ASTM D5185m		27	265	
	Calcium	ppm	ASTM D5185m		4097	2072	
	Phosphorus	ppm	ASTM D5185m		808	921	
	Zinc	ppm	ASTM D5185m		1090	1265	
	Sulfur	ppm	ASTM D5185m		4475	3175	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	9.2	17.7	
	Base Number (BN)		ASTM D2896		13.69	9.46	
	()	0 - 3	ASTM D445		14.9		





Laboratory Sample No. Lab Number **Unique Number** Certificate L2367

: TR06055069 : 06055069 : 10821018 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 08 Jan 2024 : 10 Jan 2024 Diagnosed

Diagnostician : Wes Davis

SPRAGUE, WA US 99032 Contact: RON GROGAN

BARR-TECH COMPOSTING

9117 KALLENBERGER RD N

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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