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

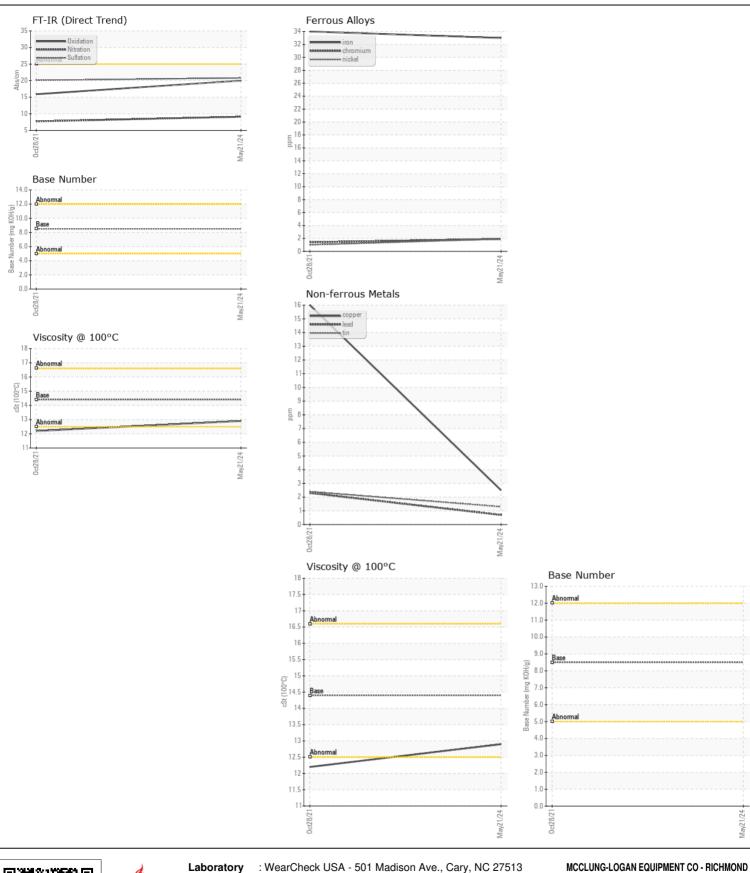
Machine Id

## **MECALAC 8MCR 0162172**

Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		ML0001855	VCP336429	
	Sample Date		Client Info		21 May 2024	28 Oct 2021	
	Machine Age	hrs	Client Info		0	857	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	N/A	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ATTENTION	
WEAR	Iron	ppm	ASTM D5185m	>100	33	34	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	2	1	
	Nickel	ppm	ASTM D5185m		2	1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	<1	<1	
	Aluminum	ppm	ASTM D5185m		3	4	
	Lead	ppm	ASTM D5185m		<1	2	
	Copper	ppm	ASTM D5185m		2	16	
	Tin	ppm	ASTM D5185m		1	2	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	18	17	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	4	
	Fuel		WC Method	>5	<1.0	0.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.2	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	9.1	7.7	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	20.1	
	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	>158	3	2	
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.	Boron	ppm	ASTM D5185m		37	35	
	Barium	ppm	ASTM D5185m		0	1	
	Molybdenum	ppm	ASTM D5185m		45	54	
	Manganese	ppm	ASTM D5185m		1	2	
	Magnesium	ppm	ASTM D5185m	450	561	575	
	Calcium	ppm	ASTM D5185m	3000	1975	1447	
	Phosphorus	ppm	ASTM D5185m	1150	1032	966	
	Zinc	ppm	ASTM D5185m		1304	1420	
	Sulfur	ppm	ASTM D5185m		3614	3587	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.0	15.9	
	Base Number (BN)	mg KOH/g			8.8		
	Visc @ 100°C	cSt	ASTM D445		12.9	12.2	







Certificate L2367

Laboratory Sample No.

Lab Number : 06189961

: ML0001855

Unique Number : 11046713

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 May 2024 **Tested** 

: 25 May 2024 Diagnosed : 29 May 2024 - Sean Felton

1345 MOUNTAIN ROAD GLEN ALLEN, VA US 23060

Contact: KYLE RATLIFFE KRATLIFFE@MCCLUNG-LOGAN.COM

Test Package : CONST ( Additional Tests: TBN ) To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - 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) F: (804)266-1611

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