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

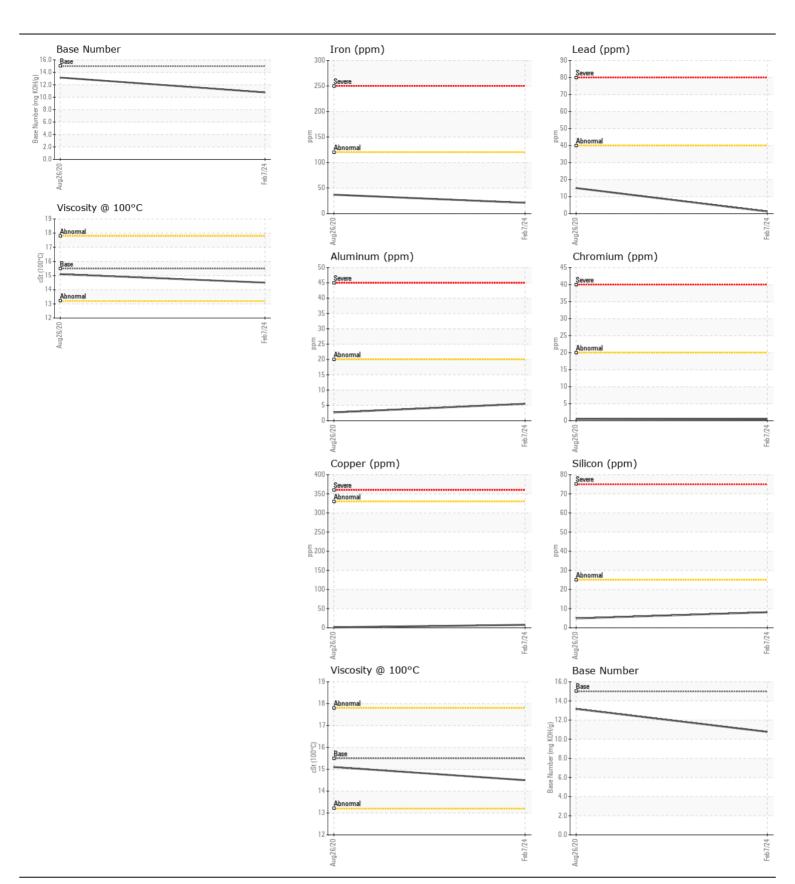
**OIL ANALYSIS REPORT** 

Machine Id

## **MACK MACK**

Component Diesel Engine

PECOMMENDATION	T4	11084	Mada	Library / Alle	( a	I Bakama	111:4
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR02616939	TR02374155	
	Sample Date  Machine Age	Lunn	Client Info		07 Feb 2024	26 Aug 2020 1657	
	3	kms	Client Info		0		
	Oil Age Filter Age	kms kms	Client Info		0 42771	526 526	
	Oil Changed	KIIIS	Client Info		N/A	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status		Olicit iiilo		NORMAL	NORMAL	
	· · · · · · · · · · · · · · · · · · ·						
WEAR	Iron	ppm	ASTM D5185(m)	>120	21	37	
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>20	<1	<1	
	Nickel	ppm	ASTM D5185(m)	>5	1	0	
	Titanium	ppm	ASTM D5185(m)	>2	0	<1	
	Silver	ppm	ASTM D5185(m)	>2	<1	0	
	Aluminum	ppm	ASTM D5185(m)	>20	6	3	
	Lead	ppm	ASTM D5185(m)	>40	1	15	
	Copper	ppm	ASTM D5185(m)	>330	8	1	
	Tin	ppm	ASTM D5185(m)	>15	1	<1	
	Vanadium	ppm	ASTM D5185(m)		0	<1	
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	8	5	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)	>20	4	1	
	Fuel		WC Method	>3.0	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	ASTM D7844*	>4	0.4	1.6	
	Nitration	Abs/cm	ASTM D7624*	>20	14.0	14.3	
	Sulfation	Abs/.1mm	ASTM D7415*	>30	27.4	27.1	
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		6	2	
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185(m)		16	55	
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185(m)		0	<1	
	Molybdenum	ppm	ASTM D5185(m)		218	93	
	Manganese	ppm	ASTM D5185(m)		0	<1	
	Magnesium	ppm	ASTM D5185(m)		37	44	
	Calcium	ppm	ASTM D5185(m)	4500	4531	4611	
	Phosphorus	ppm	ASTM D5185(m)		1031	1142	
	Zinc	ppm	ASTM D5185(m)	1400	1173	1336	
	Sulfur	ppm	ASTM D5185(m)		3715	3658	
	Oxidation	Abs/.1mm	ASTM D7414*	>25	18.5	21.4	
	Base Number (BN)	mg KOH/g	ASTM D2896*	15	10.77	13.16	
	Visc @ 100°C	cSt	ASTM D7279(m)	15.5	14.5	15.1	





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: TR02616939 Lab Number : 02616939 Unique Number : 5734049

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received **Tested** 

Diagnosed Test Package : MOB 2

**POLAR ENTERPRISE** BOX 36, GRP 8

HADASHVILLE, MB CA R0E 0X0

Contact: Trevor Panych

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)

: 21 Feb 2024

: 22 Feb 2024

: 22 Feb 2024 - Wes Davis

T: (204)326-8683 F: