

NORMAL NORMAL CONTAMINANTS **OIL CONDITION** NORMAL

WEAR

[26673] **MCI B1906**

Diesel Engine

DIESEL ENGINE OIL SAE 10W30 (40 LTR)

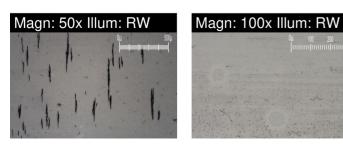
RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in. The ferrography results are normal indicating no abnormal wear in the system.

Magn: 200x Illum: BC								
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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0907683	AP99998	
Sample Date		Client Info		18 Mar 2024	14 Jan 2019	
Machine Age	kms	Client Info		629073	25274	
Oil Age	kms	Client Info		0	0	
Filter Age	kms	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
PQ		ASTM D8184*		0		
Iron	ppm	ASTM D5185(m)	>100	16	25	
Chromium		ASTM D5185(m)	>20	<1	1	
Nickel	ppm	ASTM D5185(m)	>4	0	<1	
Titanium	ppm		>4	ہ <1		
	ppm	ASTM D5185(m)	. 0		<1	
Silver	ppm	ASTM D5185(m)	>3	0	0	
Aluminum	ppm	ASTM D5185(m)	>20	3	2	
Lead	ppm	ASTM D5185(m)	>40	13	2	
Copper	ppm	ASTM D5185(m)	>330	<1	23	
Tin	ppm	ASTM D5185(m)	>15	0	<1	
Vanadium	ppm	ASTM D5185(m)		0	0	
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Large Particles		DR-Ferr*		23.8		
Small Particles		DR-Ferr*		10.6		
Total Particles		DR-Ferr*	>	34.4		
Large Particles Percentage	%	DR-Ferr*		38.4		
Severity Index		DR-Ferr*		314		
Ferrous Rubbing	Scale 0-10	ASTM D7684*		3		
Ferrous Sliding	Scale 0-10	ASTM D7684*				
Ferrous Cutting	Scale 0-10	ASTM D7684*				
Ferrous Rolling	Scale 0-10	ASTM D7684*		1		
Ferrous Break-in	Scale 0-10	ASTM D7684*				
Ferrous Spheres	Scale 0-10	ASTM D7684*				
Ferrous Black Oxides	Scale 0-10	ASTM D7684*		1		
Ferrous Red Oxides	Scale 0-10	ASTM D7684*				
Ferrous Corrosive	Scale 0-10	ASTM D7684*				
Ferrous Other	Scale 0-10	ASTM D7684*				
Nonferrous Rubbing	Scale 0-10	ASTM D7684*				
Nonferrous Sliding	Scale 0-10	ASTM D7684*				
Nonferrous Cutting	Scale 0-10	ASTM D7684*				
Nonferrous Rolling	Scale 0-10	ASTM D7684*				
Nonferrous Other	Scale 0-10	ASTM D7684*				

Report Id: ONT567NOR [WCAMIS] 02626374 (Generated: 04/05/2024 13:08:03) Rev: 1

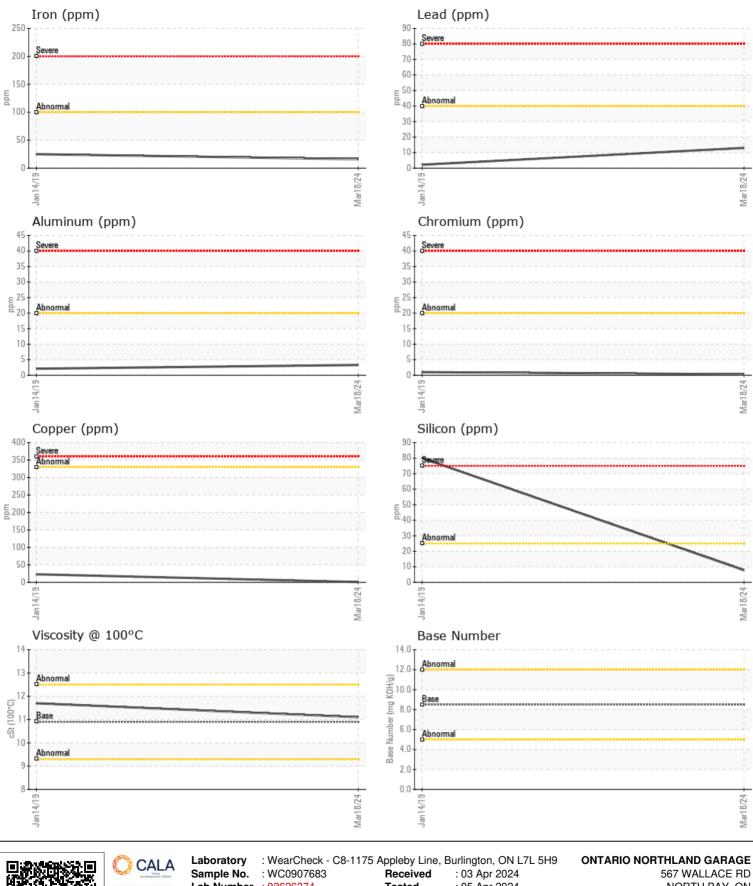
CONTAMINANTS

There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	8	80	
Potassium	ppm	ASTM D5185(m)	>20	1	4	
Fuel		WC Method	>5	<1.0	0.2	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
Soot %	%	ASTM D7844*	>3	0.1	0	
Nitration	Abs/cm	ASTM D7624*	>20	10.9	9.6	
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.6	23.2	
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	VLITE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
Carbonaceous Material	Scale 0-10	ASTM D7684*				
Sand/Dirt	Scale 0-10	ASTM D7684*		1		
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		2		
Sodium	ppm	ASTM D5185(m)		3	8	
Boron	ppm	ASTM D5185(m)	250	31	32	
Barium	ppm	ASTM D5185(m)	10	0	4	
Molybdenum	ppm	ASTM D5185(m)	100	81	42	
Manganese	ppm	ASTM D5185(m)		0	3	
Magnesium	ppm	ASTM D5185(m)	450	91	504	
Calcium	ppm	ASTM D5185(m)	3000	2313	1708	
Phosphorus	ppm	ASTM D5185(m)	1150	1035	785	
Zinc	ppm	ASTM D5185(m)	1350	1199	956	
Sulfur	ppm	ASTM D5185(m)	4250	3049	2114	
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.6	21.7	
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	6.41		
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	11.1	11.7	
Lubricant Degradation	Scale 0-10	ASTM D7684*				

OIL CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



Lab Number : 02626374 : 05 Apr 2024 ISO 17025:2017 Accredited Unique Number : 5759506 Diagnosed : 05 Apr 2024 - Kevin Marson Laboratory Test Package : MOB 3 To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Tested

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Submitted By: Ed Violette Page 3 of 4

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