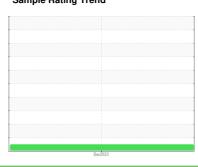


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



OJ032641

Component **Diesel Engine** 

**NOT GIVEN (--- GAL)** 

		$\sim$ 1	10	0	10
	ΙА	G١	MC.		-
_		$\sim$	40	~	$\cdot$

## Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

## Wear

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the oil

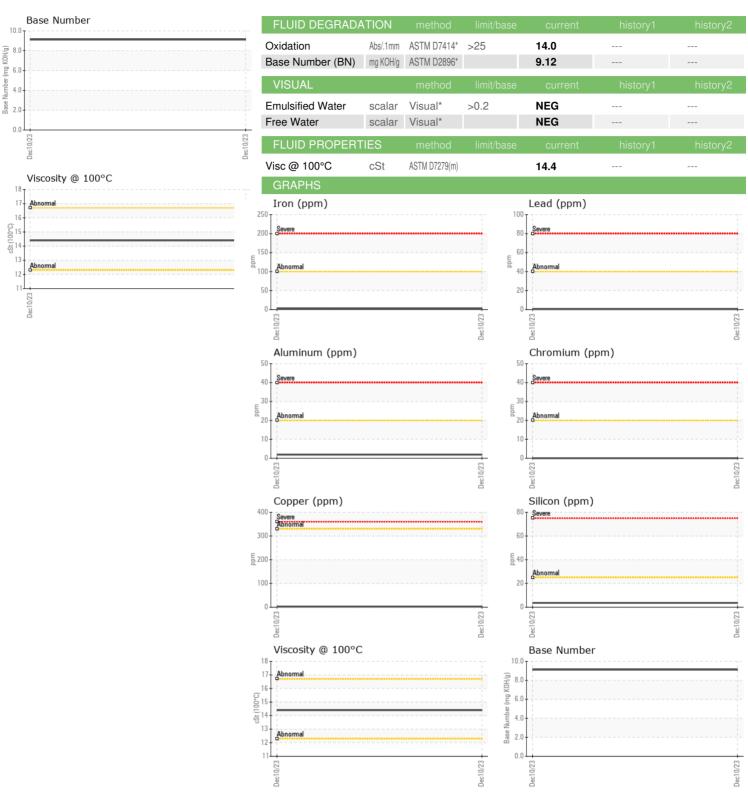
## **Fluid Condition**

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

SAMPLE INFORMATION   method   limit/base   current   history1   history2							
Sample Number   Client Info   WC0875050			-		Dec2023		
Sample Date   Client Info   0   0   0   0   0   0   0   0   0	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         0	Sample Number		Client Info		WC0875050		
Oil Age         hrs         Client Info         N/A			Client Info		10 Dec 2023		
Oil Changed   Client Info   N/A	Machine Age	hrs	Client Info		0		
Sample Status	Oil Age	hrs	Client Info		0		
CONTAMINATION         method         limit/base         current         history1         history2           Fuel         WC Method         >5         <1.0	Oil Changed		Client Info		N/A		
Fuel   WC Method   >5	Sample Status				NORMAL		
Water Glycol         WC Method         >0.2         NEG	CONTAMINATION	V	method	limit/base	current	history1	history2
WEAR METALS	Fuel		WC Method	>5	<1.0		
WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185(m)         >100         2             Chromium         ppm         ASTM D5185(m)         >20         0             Nickel         ppm         ASTM D5185(m)         >4         0             Titanium         ppm         ASTM D5185(m)         >3         <1	Water		WC Method	>0.2	NEG		
Iron	Glycol		WC Method		NEG		
Chromium	WEAR METALS		method	limit/base	current	history1	history2
Chromium	Iron	ppm	ASTM D5185(m)	>100	2		
Nickel	Chromium		. ,	>20			
Titanium         ppm         ASTM D5185(m)         3         <1             Silver         ppm         ASTM D5185(m)         >3         <1	Nickel		ASTM D5185(m)	>4	0		
Silver	Titanium		. ,		85		
Lead	Silver		ASTM D5185(m)	>3	<1		
Copper	Aluminum	ppm	ASTM D5185(m)	>20	2		
Tin	Lead	ppm	ASTM D5185(m)	>40	<1		
Antimony         ppm         ASTM D5185(m)         0             Vanadium         ppm         ASTM D5185(m)         <1	Copper	ppm	ASTM D5185(m)	>330	2		
Vanadium         ppm         ASTM D5185(m)         <1             Beryllium         ppm         ASTM D5185(m)         0             Cadmium         ppm         ASTM D5185(m)         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         140             Barium         ppm         ASTM D5185(m)         3             Molybdenum         ppm         ASTM D5185(m)         3             Manganese         ppm         ASTM D5185(m)         393             Magnesium         ppm         ASTM D5185(m)         393             Calcium         ppm         ASTM D5185(m)         947             Phosphorus         ppm         ASTM D5185(m)         3123             Sulfur         ppm         ASTM D5185(m)         >25         4             CONTAMINANTS         method         limit/base         <	Tin	ppm	ASTM D5185(m)	>15	0		
Beryllium	Antimony	ppm	ASTM D5185(m)		0		
Cadmium         ppm         ASTM D5185(m)         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         140             Barium         ppm         ASTM D5185(m)         <1	Vanadium	ppm	ASTM D5185(m)		<1		
ADDITIVES   method   limit/base   current   history1   history2	Beryllium	ppm	ASTM D5185(m)		0		
Boron   ppm   ASTM D5185(m)   140	Cadmium	ppm	ASTM D5185(m)		0		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185(m)         3             Manganese         ppm         ASTM D5185(m)         0             Magnesium         ppm         ASTM D5185(m)         393             Calcium         ppm         ASTM D5185(m)         1693             Phosphorus         ppm         ASTM D5185(m)         947             Zinc         ppm         ASTM D5185(m)         1089             Sulfur         ppm         ASTM D5185(m)         3123             Lithium         ppm         ASTM D5185(m)         <1             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >25         4             Sodium         ppm         ASTM D5185(m)         >20         4             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %	Boron	ppm	ASTM D5185(m)		140		
Manganese         ppm         ASTM D5185(m)         0             Magnesium         ppm         ASTM D5185(m)         393             Calcium         ppm         ASTM D5185(m)         1693             Phosphorus         ppm         ASTM D5185(m)         947             Zinc         ppm         ASTM D5185(m)         1089             Sulfur         ppm         ASTM D5185(m)         3123             Lithium         ppm         ASTM D5185(m)         <1	Barium	ppm	ASTM D5185(m)		<1		
Magnesium         ppm         ASTM D5185(m)         393             Calcium         ppm         ASTM D5185(m)         1693             Phosphorus         ppm         ASTM D5185(m)         947             Zinc         ppm         ASTM D5185(m)         1089             Sulfur         ppm         ASTM D5185(m)         3123             Lithium         ppm         ASTM D5185(m)         <1	Molybdenum	ppm	ASTM D5185(m)		3		
Calcium         ppm         ASTM D5185(m)         1693             Phosphorus         ppm         ASTM D5185(m)         947             Zinc         ppm         ASTM D5185(m)         1089             Sulfur         ppm         ASTM D5185(m)         3123             Lithium         ppm         ASTM D5185(m)         <1	Manganese	ppm	ASTM D5185(m)		0		
Phosphorus         ppm         ASTM D5185(m)         947             Zinc         ppm         ASTM D5185(m)         1089             Sulfur         ppm         ASTM D5185(m)         3123             Lithium         ppm         ASTM D5185(m)         <1             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >25         4             Sodium         ppm         ASTM D5185(m)         >20         4             Potassium         ppm         ASTM D5185(m)         >20         4             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         ASTM D7844*         >3         0             Nitration         Abs/cm         ASTM D7624*         >20         5.7	Magnesium	ppm	ASTM D5185(m)		393		
Zinc         ppm         ASTM D5185(m)         1089             Sulfur         ppm         ASTM D5185(m)         3123             Lithium         ppm         ASTM D5185(m)         <1	Calcium	ppm	ASTM D5185(m)		1693		
Sulfur         ppm         ASTM D5185(m)         3123             Lithium         ppm         ASTM D5185(m)         <1             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >25         4             Sodium         ppm         ASTM D5185(m)         3             Potassium         ppm         ASTM D5185(m)         >20         4             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         ASTM D7844*         >3         0             Nitration         Abs/cm         ASTM D7624*         >20         5.7	Phosphorus	ppm	ASTM D5185(m)		947		
Lithium         ppm         ASTM D5185(m)         <1             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >25         4             Sodium         ppm         ASTM D5185(m)         3             Potassium         ppm         ASTM D5185(m)         >20         4             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         ASTM D7844*         >3         0             Nitration         Abs/cm         ASTM D7624*         >20         5.7	Zinc	ppm	ASTM D5185(m)		1089		
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >25         4             Sodium         ppm         ASTM D5185(m)         3             Potassium         ppm         ASTM D5185(m)         >20         4             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         ASTM D7844*         >3         0             Nitration         Abs/cm         ASTM D7624*         >20         5.7	Sulfur	ppm	ASTM D5185(m)		3123		
Silicon         ppm         ASTM D5185(m)         >25         4             Sodium         ppm         ASTM D5185(m)         3             Potassium         ppm         ASTM D5185(m)         >20         4             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         ASTM D7844*         >3         0             Nitration         Abs/cm         ASTM D7624*         >20         5.7	Lithium	ppm	ASTM D5185(m)		<1		
Sodium         ppm         ASTM D5185(m)         3             Potassium         ppm         ASTM D5185(m)         >20         4             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         ASTM D7844*         >3         0             Nitration         Abs/cm         ASTM D7624*         >20         5.7	CONTAMINANTS	;	method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185(m)         >20         4             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         ASTM D7844*         >3         0             Nitration         Abs/cm         ASTM D7624*         >20         5.7	Silicon	ppm	ASTM D5185(m)	>25	4		
INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         ASTM D7844*         >3         0             Nitration         Abs/cm         ASTM D7624*         >20         5.7	Sodium	ppm	ASTM D5185(m)		3		
Soot %         %         ASTM D7844*         >3         0             Nitration         Abs/cm         ASTM D7624*         >20         5.7	Potassium	ppm	ASTM D5185(m)	>20	4		
Nitration         Abs/cm         ASTM D7624*         >20         5.7	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	ASTM D7844*	>3	0		
		Abs/cm	ASTM D7624*	>20	5.7		
	Sulfation						



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0875050

: 02602105 : 5695190 Test Package : MOB 2

Received : 11 Dec 2023 : 14 Dec 2023 Diagnosed : Wes Davis Diagnostician

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.

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