OIL ANALYSIS REPORT

WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id

CASE 4440 4440

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR02640748		
	Sample Date		Client Info		04 Jun 2024		
	Machine Age	hrs	Client Info		2000		
	Oil Age	hrs	Client Info		180		
	Filter Age	hrs	Client Info		180		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
VEAR	Iron	ppm	ASTM D5185(m)	>100	6		
	Chromium	ppm	ASTM D5185(m)	>20	0		
All component wear rates are normal.	Nickel	ppm	ASTM D5185(m)		0		
	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)	>3	0		
	Aluminum	ppm	ASTM D5185(m)	>20	11		
	Lead	ppm	ASTM D5185(m)	>40	0		
	Copper	ppm	ASTM D5185(m)	>330	<1		
	Tin	ppm	ASTM D5185(m)	>15	0		
	Vanadium	ppm	ASTM D5185(m)		0		
CONTAMINATION Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185(m)	>25	2		
	Potassium	ppm	ASTM D5185(m)	>20	23		
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	ASTM D7844*		0		
	Nitration	Abs/cm	ASTM D7624*	>20	5.4		
	Sulfation	Abs/.1mm	ASTM D7415*		16.9		
<u></u>	Emulsified Water	scalar	Visual*	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		4		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185(m)		8		
	Barium	ppm	ASTM D5185(m)		0		
	Molybdenum	ppm	ASTM D5185(m)		40		
	Manganese	ppm	ASTM D5185(m)		0		
	Magnesium	ppm	ASTM D5185(m)		25		
	Calcium	ppm	ASTM D5185(m)	4500	4798		
	Phosphorus	ppm	ASTM D5185(m)	1.165	963		
	Zinc	ppm	ASTM D5185(m)	1400	1089		
	Sulfur	ppm Aba/dama	ASTM D5185(m)	05	3607		
	Oxidation	Abs/.1mm	ASTM D000C*		9.5		
	Base Number (BN)	mg KOH/g	ASTM D2896*	15	13.65		





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Test Package : MOB 2

: TR02640748 Lab Number : 02640748 Unique Number : 5789910

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 10 Jun 2024 **Tested** : 11 Jun 2024

: 11 Jun 2024 - Wes Davis Diagnosed

LONE PINE COLONY **BOX 250** BOTHA, AB

CA TOC 0N0 Contact: DAVE WIPF

> T: (403)742-3454 F: (403)742-3474

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)