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

Machine Id CR259

Component Diesel Engine

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor.	Sample Number		Client Info		PC0078303		
	Sample Date		Client Info		12 Feb 2024		
	Machine Age	hrs	Client Info		737		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
VEAR	Iron	ppm	ASTM D5185(m)	>100	5		
	Chromium	ppm	ASTM D5185(m)	>20	<1		
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185(m)		<1		
	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)	>3	0		
	Aluminum	ppm	ASTM D5185(m)		8		
	Lead	ppm	ASTM D5185(m)		<1		
	Copper	ppm	ASTM D5185(m)		<1		
	Tin	ppm	ASTM D5185(m)		0		
	Vanadium	ppm	ASTM D5185(m)	710	0		
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
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ONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	2		
	Potassium	ppm	ASTM D5185(m)	>20	<1		
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	ASTM D7844*	>3	0		
	Nitration	Abs/cm	ASTM D7624*	>20	7.6		
	Sulfation	Abs/.1mm	ASTM D7415*	>30	20.2		
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance	scalar	Visual*	NORML	NORML		
	Odor	scalar	Visual*	NORML	NORML		
	Emulsified Water	scalar	Visual*	>0.2	NEG		
UID CONDITION	Sodium	ppm	ASTM D5185(m)	>44	4		
OID CONDITION	Boron		ASTM D5185(m)		48		
The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185(m)		0		
	Molybdenum	ppm	ASTM D5185(m)		55		
	Manganese	ppm	ASTM D5185(m)		0		
	Magnesium	ppm	ASTM D5185(m)	450	1053		
	Calcium	ppm	ASTM D5185(m)	3000	805		
	Phosphorus	ppm	ASTM D5185(m)		979		
	Zinc	ppm	ASTM D5185(m)	1350	1128		
	Sulfur	ppm	ASTM D5185(m)		2872		
	Oxidation	Abs/.1mm	ASTM D3163(III) ASTM D7414*		18.5		
	Visc @ 40°C	cSt	ASTM D7414 ASTM D7279(m)		88.6		
	VISC @ 40 C				14.3		
	Visc @ 100°C	cSt	ASTM D7279(m)	14.4			





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: PC0078303 Lab Number : 02617404

Received **Tested** Unique Number : 5734514

: 22 Feb 2024 : 22 Feb 2024 - Wes Davis Diagnosed Test Package: MOB 1 (Additional Tests: KV40, VI, Visual)

: 22 Feb 2024

To discuss this sample report, contact Customer Service at 1-800-268-2131.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations

151 Ram Forest Rd, Stouffville, ON CA L4A 2G8

Contact: Shannon Abbott sabbott@gipi.com T: (905)750-5900

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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