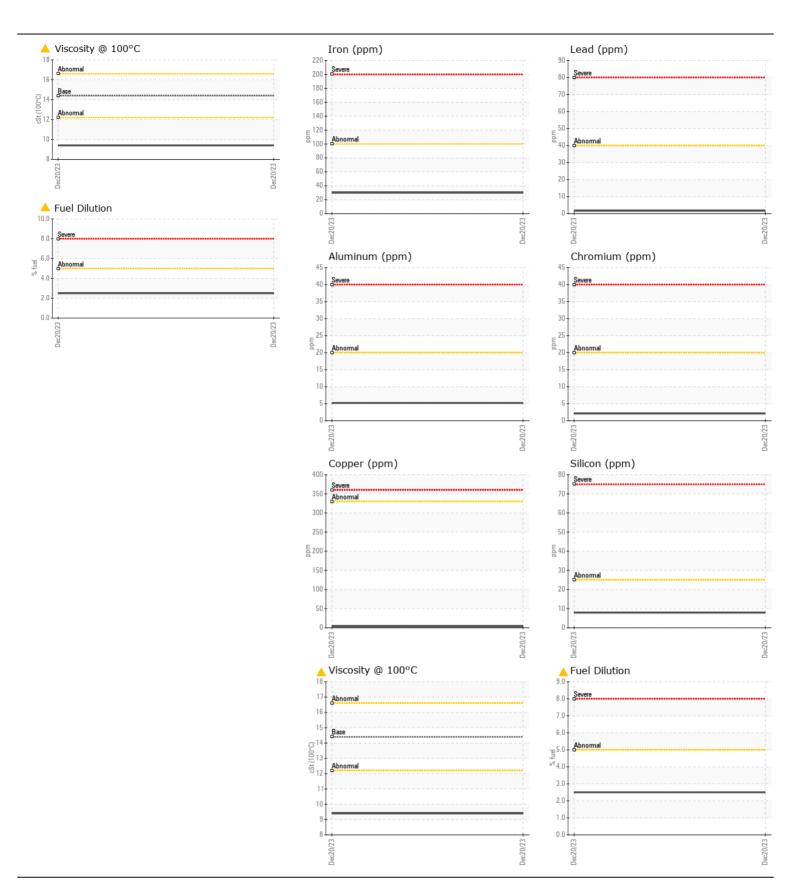
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL **MARGINAL ABNORMAL**

KOBELCO NO UNIT WC0531821

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
LEGOMMENDATION	Sample Number	00	Client Info	2	WC0531821		
Resample at the next service interval to monitor.	Sample Date		Client Info		20 Dec 2023		
	Machine Age	hrs	Client Info		1600		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
VE A D							
WEAR	Iron	ppm	ASTM D5185(m)		30		
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)		2		
	Nickel	ppm	ASTM D5185(m)	>4	<1		
	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)	>3	0		
	Aluminum	ppm	ASTM D5185(m)	>20	5		
	Lead	ppm	ASTM D5185(m)	>40	2		
	Copper	ppm	ASTM D5185(m)		4		
	Tin	ppm	ASTM D5185(m)	>15	0		
	Vanadium White Metal	ppm	ASTM D5185(m) Visual*	NONE	0 NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
	Tellow Metal	scalar	VISUAI	NONE	INOINE		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	8		
	Potassium	ppm	ASTM D5185(m)	>20	2		
Light fuel dilution occurring.	Fuel	%	ASTM D7593*		2.5		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	ASTM D7844*	>3	0.2		
	Nitration	Abs/cm	ASTM D7624*	>20	6.6		
	Sulfation	Abs/.1mm	ASTM D7415*	>30	16.8		
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance	scalar	Visual*	NORML	NORML		
	Odor		Visual*	NORML	NORML		
	Emulsified Water	scalar	Visual*	>0.2	NEG		
I LIID CONDITION	Sodium	nnm	ASTM D5185(m)	-1F0	10		
FLUID CONDITION	Boron	ppm	ASTM D5185(m) ASTM D5185(m)		12 27		
Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185(m) ASTM D5185(m)	10	37 0		
	Molybdenum	ppm	ASTM D5185(m) ASTM D5185(m)				
	Manganese	ppm	ASTM D5185(III) ASTM D5185(m)	100	120 0		
	Magnesium	ppm	ASTM D5185(III) ASTM D5185(m)	450	80		
	Calcium	ppm	ASTM D5185(III) ASTM D5185(m)	3000	2572		
	Phosphorus	ppm	ASTM D5185(III) ASTM D5185(m)	1150	833		
	Zinc	ppm	ASTM D5185(III) ASTM D5185(m)	1350	979		
	Sulfur	ppm	ASTM D5185(m)	4250	4932		
	Juliui	ppiii	710 TWI DOTOO(III)	1200	7002		
	Oxidation	Abs/.1mm	ASTM D7414*	>25	8.6		





CALA ISO 17025:2017 Accredited

Laboratory Sample No. Lab Number **Unique Number**

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : 02606712

: WC0531821 : 5707798

Recieved Diagnosed

: 05 Jan 2024 : 08 Jan 2024

Diagnostician : Kevin Marson Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, Visual)

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.

W.J. Lambert & Sons 1435 Thorah Concession Rd. 6 Beaverton, ON CA LOK 1A0 Contact: Bill Graham service.wjlambert@bellnet.ca T: (705)426-7374