WEAR CONTAMINATION FLUID CONDITION

SEVERE SEVERE NORMAL

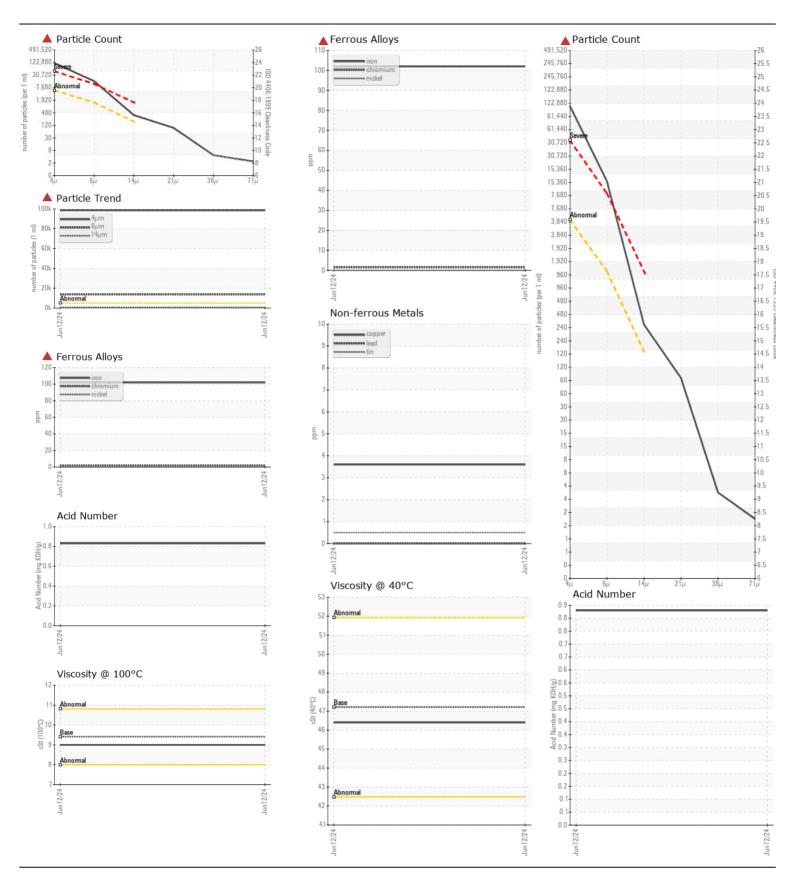
Machine Id

## KOBELCO SK210LC-9 SK210LC9 (S/N YQ13-10185)

Hydraulic System

SHFI I NATURELLE S2 HYDRAULIC FLUID 46 (--- LTR)

SHELL NATURELLE S2 HYDRAULIC FLUID 46	( LTR)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEGGIIIIETTEATTON	Sample Number		Client Info		PC977262		
Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we	Sample Date		Client Info		12 Jun 2024		
	Machine Age	hrs	Client Info		9248		
	Oil Age	hrs	Client Info		3000		
recommend that you service/replace the breather. The filter change at	Filter Age	hrs	Client Info		2000		
the time of sampling has been noted. Resample in 30-45 days to	Oil Changed		Client Info		Not Changd		
monitor this situation.	Filter Changed		Client Info		Changed		
	Sample Status				SEVERE		
WEAR	PQ		ASTM D8184*		0		
Iron nom lovele are severe. The low ferrous density (DO) inde-	Iron	ppm	ASTM D5185(m)		<b>102</b>		
Iron ppm levels are severe. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.	Chromium	ppm	ASTM D5185(m)		2		
	Nickel	ppm	ASTM D5185(m)	>10	0		
	Titanium	ppm	ASTM D5185(m)		<1		
	Silver	ppm	ASTM D5185(m)		0		
	Aluminum	ppm	ASTM D5185(m)		3		
	Lead	ppm	ASTM D5185(m)		0		
	Copper	ppm	ASTM D5185(m)	>75	4		
	Tin	ppm	ASTM D5185(m)	>10	<1		
	Vanadium	ppm	ASTM D5185(m)	NONE	0		
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>20	6		
CONTAMINATION	Potassium	ppm	ASTM D5185(m)		1		
There is a high amount of silt (particulates < 14 microns in size)	Water	ррпп	WC Method		NEG		
present in the oil.	Particles >4µm		ASTM D7647		▲ 98538		
	Particles >6µm		ASTM D7647		<b>▲</b> 13678		
	Particles >14µm		ASTM D7647		<u></u> 324		
	Particles >21µm		ASTM D7647		80		
	Particles >38µm		ASTM D7647		4		
	Particles >71µm		ASTM D7647	>3	2		
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>24/21/16</b>		
	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		
	<b>Emulsified Water</b>	scalar	Visual*	>0.1	NEG		
EL LUD GONDITION							
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		2		
The AN level is acceptable for this fluid. The oil is no longer	Boron	ppm	ASTM D5185(m)		7		
serviceable as a result of the abnormal and/or severe wear.	Barium	ppm	ASTM D5185(m)		0		
serviceable as a result of the abhorital and/or severe wear.	Molybdenum	ppm	ASTM D5185(m)		0		
	Manganese	ppm	ASTM D5185(m)		<1 1		
	Magnesium Calcium	ppm	ASTM D5185(m) ASTM D5185(m)		11		
	Phosphorus	ppm	ASTM D5185(m)		201		
	Zinc	ppm	ASTM D5165(III) ASTM D5185(m)		124		
	Sulfur	ppm	ASTM D5185(m)		2129		
	Acid Number (AN)	mg KOH/g	ASTM D3103(III) ASTM D974*		0.83		
	Visc @ 40°C	cSt	ASTM D7279(m)	47.2	46.4		
	Visc @ 40 C	cSt	ASTM D7279(m)	9.41	9.0		
	Viscosity Index (VI)		ASTM D2270*		178		
	VIDOUSILY ITIUUN (VI)	Odalo	NOTIVI DELIV	100	170		





CALA ISO 17025:2017 Accredited Laboratory

Sample No. Lab Number

Laboratory

: PC977262 : 02641772

Unique Number : 5799311

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 13 Jun 2024 **Tested** : 14 Jun 2024

: 14 Jun 2024 - Kevin Marson Diagnosed Test Package : MOB 2 ( Additional Tests: KV100, PQ, TAN Auto, TAN Man, VI )

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.

LES EQUIPEMENT PINSO

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