

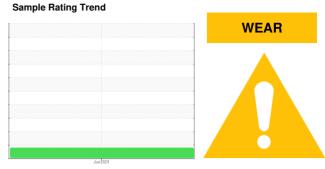
# **OIL ANALYSIS REPORT**

MINING

# ME-128 KOMATSU WA500-8 A96257

Rear Differential

SHELL Spirax S4 CX 30 (--- GAL)



## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

## Wear

Gear wear is indicated.

### Contamination

There is no indication of any contamination in the

### **Fluid Condition**

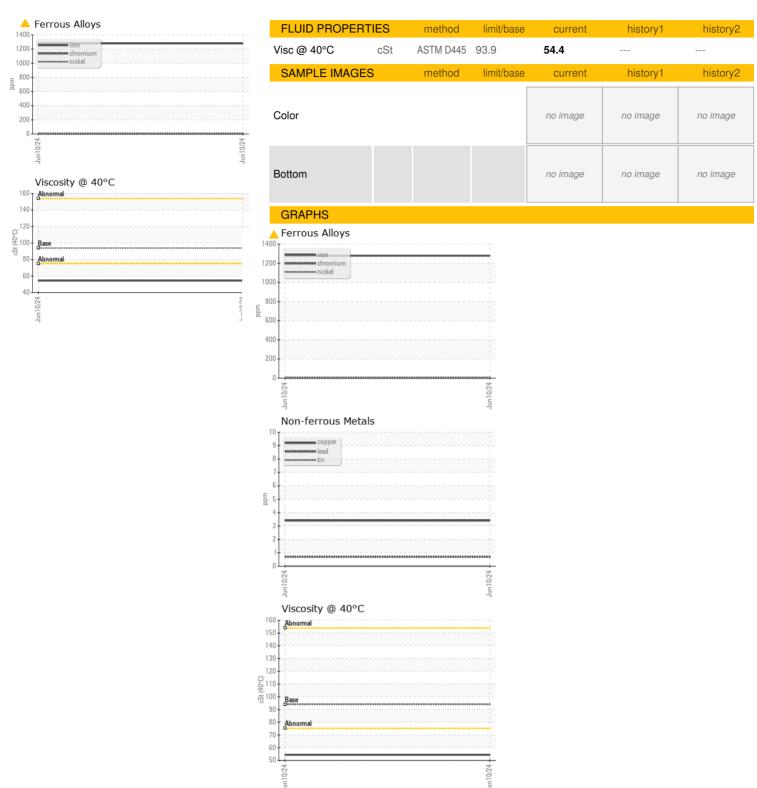
The condition of the oil is acceptable for the time in service.

Sample Number         Client Info         WC0950172             Sample Date         Client Info         10 Jun 2024             Machine Age         hrs         Client Info         0             Dil Age         hrs         Client Info         Not Changd             Sample Status         ABNORMAL              CONTAMINATION         method         limit/base         current         history1         history2           Water         WC Method         >.2         NEG             Water         WC Method         >         NEG              Water         Dpm         ASTM D5185m         >10         2					Jun2024		
Sample Date     Client Info   10 Jun 2024	SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Machine Age hrs Client Info 0 0	Sample Number		Client Info		WC0950172		
Dil Changed	Sample Date		Client Info		10 Jun 2024		
Contained   Client Info   Not Change   Contained	Machine Age	hrs	Client Info		15122		
ABNORMAL	Oil Age	hrs	Client Info		0		
ABNORMAL	Oil Changed		Client Info		Not Changd		
Water         WC Method         >.2         NEG            WEAR METALS         method         limit/base         current         history1         history2           ron         ppm         ASTM D5185m         >500         ▲ 1278             Chromium         ppm         ASTM D5185m         >10         2             Nickel         ppm         ASTM D5185m         >10         <1             Siliver         ppm         ASTM D5185m         >10         <1             Aluminum         ppm         ASTM D5185m         >25         3             Aluminum         ppm         ASTM D5185m         >25         3             Lead         ppm         ASTM D5185m         >25         3             Lead         ppm         ASTM D5185m         >10         3             Acade         ppm         ASTM D5185m         >10         0             Codamium         ppm         ASTM D5185m         132	-						
WEAR METALS         method         limit/base         current         history1         history2           ron         ppm         ASTM DS185m         >500         ▲ 1278             Chromium         ppm         ASTM DS185m         >10         2             Nickel         ppm         ASTM DS185m         >10         <1	CONTAMINATION	١	method	limit/base	current	history1	history2
Chromium	Water		WC Method	>.2	NEG		
Description	WEAR METALS		method	limit/base	current	history1	history2
Nickel	ron	ppm	ASTM D5185m	>500	<b>1278</b>		
Silver	Chromium	ppm	ASTM D5185m	>10	2		
ASTM D5185m   D	Nickel	ppm	ASTM D5185m	>10	<1		
ASTM D5185m   >25   3	Titanium	ppm	ASTM D5185m		<1		
ASTM D5185m   >25	Silver	ppm	ASTM D5185m		0		
ASTM D5185m   S25   C1   C	Aluminum	ppm	ASTM D5185m	>25	3		
Description	_ead		ASTM D5185m	>25	<1		
Tin	Copper		ASTM D5185m	>100	3		
Vanadium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         <1             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         132             Barium         ppm         ASTM D5185m         7             Molybdenum         ppm         ASTM D5185m         9             Magnesium         ppm         ASTM D5185m         20             Magnesium         ppm         ASTM D5185m         3829             Phosphorus         ppm         ASTM D5185m         1190             Phosphorus         ppm         ASTM D5185m         5131             Zinc         ppm         ASTM D5185m         5131             Contaction         ppm         ASTM D5185m         5131             Contaction         ppm         ASTM D5185m         5131					0		
ADDITIVES					-		
Sarium							
Sarium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         7             Manganese         ppm         ASTM D5185m         9             Magnesium         ppm         ASTM D5185m         20             Calcium         ppm         ASTM D5185m         1190             Phosphorus         ppm         ASTM D5185m         1157             Zinc         ppm         ASTM D5185m         5131             Sulfur         ppm         ASTM D5185m         5131             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >75         73             Potassium         ppm         ASTM D5185m         >20         2             Potassium         ppm         ASTM D5185m         >20         2             VISUAL         method         limit/base         current         history1         history2           Viellow Metal         scala	Boron	ppm	ASTM D5185m		132		
Manganese         ppm         ASTM D5185m         9             Magnesium         ppm         ASTM D5185m         20             Calcium         ppm         ASTM D5185m         1190             Phosphorus         ppm         ASTM D5185m         1157             Zinc         ppm         ASTM D5185m         1157             Sulfur         ppm         ASTM D5185m         5131             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >75         73             Potassium         ppm         ASTM D5185m         >20         2             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Yello	Barium	ppm	ASTM D5185m		<1		
Magnesium         ppm         ASTM D5185m         20             Calcium         ppm         ASTM D5185m         3829             Phosphorus         ppm         ASTM D5185m         1190             Zinc         ppm         ASTM D5185m         1157             Sulfur         ppm         ASTM D5185m         5131             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >75         73             Sodium         ppm         ASTM D5185m         >20         2             Potassium         ppm         ASTM D5185m         >20         2             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE	Molybdenum	ppm	ASTM D5185m		7		
Calcium         ppm         ASTM D5185m         3829             Phosphorus         ppm         ASTM D5185m         1190             Zinc         ppm         ASTM D5185m         1157             Sulfur         ppm         ASTM D5185m         5131             CONTAMINANTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D5185m         >75         73             Potassium         ppm         ASTM D5185m         >20         2             Potassium         ppm         ASTM D5185m         >20         2             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE             Vellow Metal         scalar         *Visual         NONE         NONE            Precipitate         scalar         *Visual         NONE         NONE            Debris	Manganese	ppm	ASTM D5185m		9		
Phosphorus         ppm         ASTM D5185m         1190             Zinc         ppm         ASTM D5185m         1157             Sulfur         ppm         ASTM D5185m         5131             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >75         73             Potassium         ppm         ASTM D5185m         >20         2             VISUAL         method         limit/base         current         history1         history2           Ville Metal         scalar         *Visual         NONE         NONE	Magnesium	ppm	ASTM D5185m		20		
Table   Tabl	Calcium	ppm	ASTM D5185m		3829		
Time	Phosphorus	ppm	ASTM D5185m		1190		
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >75         73             Sodium         ppm         ASTM D5185m         1             Potassium         ppm         ASTM D5185m         >20         2             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Precipitate         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual			ASTM D5185m		1157		
Soliticon	Sulfur		ASTM D5185m				
Decision	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185m         >20         2             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NORM         NORML             Appearance         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >.2         NEG	Silicon	ppm	ASTM D5185m	>75	73		
VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NONE         NORML             Appearance         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >.2         NEG	Sodium	ppm	ASTM D5185m		1		
White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >.2         NEG	Potassium	ppm	ASTM D5185m	>20	2		
Yellow Metal         scalar         *Visual         NONE         NONE             Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >.2         NEG	VISUAL		method	limit/base	current	history1	history2
Precipitate scalar *Visual NONE NONE  Silt scalar *Visual NONE NONE  Debris scalar *Visual NONE NONE  Sand/Dirt scalar *Visual NONE NONE  Appearance scalar *Visual NORML NORML  Ddor scalar *Visual NORML NORML  Emulsified Water scalar *Visual >.2 NEG	White Metal	scalar	*Visual	NONE	NONE		
Silt scalar *Visual NONE NONE Scalar *Visual NONE NONE Scand/Dirt scalar *Visual NONE NONE Scand/Dirt scalar *Visual NONE NONE Scalar *Visual NORML NORML Scalar *Visual NORML NORML Scalar *Visual NORML NORML Scalar *Visual >.2 NEG	Yellow Metal	scalar	*Visual	NONE	NONE		
Debris         scalar         *Visual         NONE         NONE             Gand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Ddor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >.2         NEG	Precipitate	scalar	*Visual	NONE	NONE		
Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >.2 NEG	Silt	scalar	*Visual	NONE	NONE		
Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >.2 NEG	Debris	scalar	*Visual	NONE	NONE		
Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >.2 NEG	Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >.2 NEG	Appearance	scalar	*Visual	NORML	NORML		
Emulsified Water scalar *Visual >.2 NEG		scalar	*Visual	NORML	NORML		
	Emulsified Water						
	ree Water	scalar					

Submitted By: Wes Davis



# **OIL ANALYSIS REPORT**







Certificate 12367

Sample No.

Lab Number : 06215206

: WC0950172 Unique Number : 11088070 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Jun 2024 Tested : 20 Jun 2024

Diagnosed : 21 Jun 2024 - Sean Felton **COVIA - CRANE - 203** 10750 FM 1233 CRANE, TX US 79731

Contact: Dustin Land dustin.land@coviacorp.com T: (432)438-0491

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - 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)