

# **OIL ANALYSIS REPORT**



# MINING ME-116 CATERPILLAR 980M KRS02985

Front Differential

SHELL Spirax S4 CX 30 (-





### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the

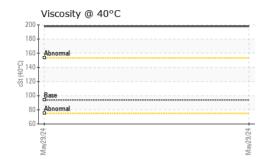
## **Fluid Condition**

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

( GAL)			'	May2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
ample Number		Client Info		WC0919977		
ample Date		Client Info		29 May 2024		
lachine Age	hrs	Client Info		14785		
Dil Age	hrs	Client Info		500		
Oil Changed		Client Info		Changed		
ample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Vater		WC Method	>.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
on	ppm	ASTM D5185m	>500	93		
hromium	ppm	ASTM D5185m	>3	<1		
ickel	ppm	ASTM D5185m	>3	0		
itanium	ppm	ASTM D5185m	>2	0		
ilver	ppm	ASTM D5185m	>2	0		
luminum	ppm	ASTM D5185m	>30	5		
ead	ppm	ASTM D5185m	>13	0		
Sopper	ppm	ASTM D5185m	>103	10		
in	ppm	ASTM D5185m	>5	0		
anadium	ppm	ASTM D5185m		0		
admium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
oron	ppm	ASTM D5185m		0		
arium	ppm	ASTM D5185m		0		
lolybdenum	ppm	ASTM D5185m		0		
langanese	ppm	ASTM D5185m		1		
lagnesium	ppm	ASTM D5185m		9		
•				3061		
alcium	mag	ASTM D5185m		300 I		
	ppm	ASTM D5185m ASTM D5185m				
alcium hosphorus inc	ppm	ASTM D5185m		1053		
hosphorus inc	ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base	1053 1272		
hosphorus inc ulfur CONTAMINANTS	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >100	1053 1272 8233	 	 
hosphorus inc ulfur CONTAMINANTS ilicon	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method		1053 1272 8233 current	  history1	  history2
hosphorus inc ulfur CONTAMINANTS ilicon odium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m		1053 1272 8233 current	  history1	history2
hosphorus inc ulfur CONTAMINANTS ilicon odium otassium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	>100	1053 1272 8233 current 5	  history1 	  history2 
hosphorus inc ulfur CONTAMINANTS ilicon odium otassium VISUAL	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20	1053 1272 8233 current 5 1	  history1 	  history2 
hosphorus inc ulfur CONTAMINANTS ilicon odium otassium VISUAL /hite Metal	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	>100 >20 limit/base	1053 1272 8233 current 5 1 0	  history1   history1	history2
hosphorus inc ulfur CONTAMINANTS ilicon odium otassium VISUAL //hite Metal ellow Metal	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual	>100 >20 limit/base NONE	1053 1272 8233 current 5 1 0 current NONE	 history1   history1	history2
hosphorus inc ulfur CONTAMINANTS ilicon odium otassium VISUAL /hite Metal ellow Metal recipitate	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m wethod *Visual	>100 >20 limit/base NONE NONE	1053 1272 8233 current 5 1 0 current NONE	history1 history1 history1	history2 history2 history2
hosphorus inc ulfur CONTAMINANTS ilicon odium otassium VISUAL /hite Metal ellow Metal recipitate ilt	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m  method  ASTM D5185m ASTM D5185m ASTM D5185m  ASTM D5185m  wethod  *Visual  *Visual  *Visual	>100 >20 limit/base NONE NONE NONE	1053 1272 8233 current 5 1 0 current NONE NONE	history1 history1 history1	history2 history2 history2
hosphorus inc ulfur CONTAMINANTS ilicon odium otassium VISUAL /hite Metal ellow Metal recipitate ilt	ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m  method ASTM D5185m ASTM D5185m ASTM D5185m  ASTM D5185m  *Visual  *Visual  *Visual  *Visual	>100 >20 limit/base NONE NONE NONE	1053 1272 8233 current 5 1 0 current NONE NONE NONE NONE	history1 history1 history1	history2 history2
hosphorus inc ulfur  CONTAMINANTS ilicon odium otassium  VISUAL /hite Metal ellow Metal recipitate ilt ebris and/Dirt	ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m  method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m  *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>100 >20 limit/base NONE NONE NONE NONE NONE NONE	1053 1272 8233 current 5 1 0 current NONE NONE NONE NONE NONE NONE	history1 history1	history2
hosphorus inc ulfur  CONTAMINANTS ilicon odium otassium  VISUAL  /hite Metal ellow Metal recipitate ilt ebris and/Dirt ppearance	ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>100  >20  limit/base  NONE  NONE  NONE  NONE  NONE  NONE  NONE  NONE	1053 1272 8233 current 5 1 0 current NONE NONE NONE NONE NONE NONE NONE NON	history1 history1	history2
hosphorus inc ulfur	ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m  *Visual	>100  >20  limit/base  NONE  NONE	1053 1272 8233 current 5 1 0 current NONE NONE NONE NONE NONE NONE NONE NON	history1 history1	history2



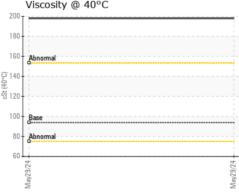
## **OIL ANALYSIS REPORT**



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	93.9	198		
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image
GRAPHS						

# Ferrous Alloys 90

Non-ferrous Metals Viscosity @ 40°C





Certificate 12367

**Sample No.** : WC0919977 Lab Number : 06198056

Unique Number : 11060179 Test Package : CONST

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Jun 2024

Tested : 04 Jun 2024

Diagnosed

: 05 Jun 2024 - Don Baldridge

US 54751 Contact: Jeremy Wagner jeremy.wagner@coviacorp.com T: (715)235-0942

**COVIA - MENOMONIE - 852** 

N5628 580TH STREET

MENOMONIE, WI

\* - 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)