

### **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL

Machine Id

# MINECAT MC100 FMC011

Component Rear Differential Fluid

SAE 75W140 (--- GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

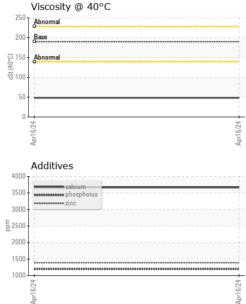
The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0925840		
Sample Date		Client Info		16 Apr 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>500	96		
Chromium	ppm	ASTM D5185(m)	>10	<1		
Nickel	ppm	ASTM D5185(m)	>10	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>25	<1		
Lead	ppm	ASTM D5185(m)	>25	3		
Copper	ppm	ASTM D5185(m)	>100	64		
Tin	ppm	ASTM D5185(m)	>10	3		
Antimony	ppm	ASTM D5185(m)	>5	0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		107		
Barium	ppm	ASTM D5185(m)		2		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		4		
Magnesium	ppm	ASTM D5185(m)		10		
Calcium	ppm	ASTM D5185(m)		3666		
Phosphorus	ppm	ASTM D5185(m)		1195		
Zinc	ppm	ASTM D5185(m)		1389		
Sulfur	ppm	ASTM D5185(m)		7932		
Lithium	ppm	ASTM D5185(m)		1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>75	12		
Sodium	ppm	ASTM D5185(m)		10		
Potassium	ppm	ASTM D5185(m)	>20	4		



## **OIL ANALYSIS REPORT**

VICUAL



hite Metal ecipitate It ebris and/Dirt opearance dor nulsified Water	scalar scalar scalar scalar scalar scalar scalar	Visual* Visual* Visual* Visual* Visual* Visual*	NONE NONE NONE NONE	NONE NONE NONE NONE	  	 
ecipitate It ebris and/Dirt opearance dor nulsified Water	scalar scalar scalar scalar	Visual* Visual* Visual*	NONE NONE	NONE NONE		
It ebris and/Dirt opearance dor nulsified Water	scalar scalar scalar	Visual* Visual*	NONE	NONE		
ebris and/Dirt opearance dor nulsified Water	scalar scalar	Visual*				
and/Dirt opearance dor nulsified Water	scalar		NONE			
opearance dor nulsified Water		Visual*		VLITE		
dor nulsified Water	scalar		NONE	NONE		
nulsified Water		Visual*	NORML	NORML		
	scalar	Visual*	NORML	NORML		
a Water	scalar	Visual*	>.2	NEG		
ee Water	scalar	Visual*		NEG		
LUID PROPERT	IES	method	limit/base	current	history1	history
sc @ 40°C	cSt	ASTM D7279(m)	190	48.4		
SAMPLE IMAGES	\$	method	limit/base	current	history1	history
blor					no image	no image
ttom					no image	no imag
					no image	no imag
BAPHS						
iron (ppm)				Lead (ppm)		
Severe				0 Smiara		
			E <sup>10</sup>	10 - 4		
			- 5	Abnormal		
17/0			6/24 -	6/24		
			Apr1	Apr1		
Aluminum (ppm)				Chromium (p	pm)	
Severe				Gevere		
			ud ,	Abnormal		
Abnormal						
1.7/0			6/24 -	6/24		
			Apr1	April		
Copper (ppm)				Silicon (ppm)		
			30	ют:		
			d d	1		
			- 10	0 Abnormal		
17/			124	124		
			Apr16	Apr16		
/iscosity @ 40°C				Additives		
Abnormal Base				(	1	
Abhorma	mananana		B 300	nanana phosphoru	s	
			200	2 Provide Prov		
17/0				st-		
			Apr1	Apr1		
						Eagle Car
				1350 Gov		
29745 2877				Ves Davis	NIN	kland Lake, CA P2N
	Diayii			100 Davis		
B 1					Contact: Mite	
	olor ottom GRAPHS ron (ppm) Severe Abnormal Copper (ppm) Severe Copper (ppm) Copper (ppm) Severe Copper (ppm) Copper (ppm)	blor bttom GRAPHS ron (ppm) severe Abnormal Aluminum (ppm) Severe Abnormal Copper (ppm) Severe Copper (ppm) Copper (ppm) Severe Copper (ppm) Copper (ppm) Severe Copper (ppm) Severe Copper (ppm) Copper (ppm)	arCheck - C8-1175 Appleby Line, Burlin 0925840 Received : 17 29745 Tested : 17	blor bitom CRAPHS ron (ppm) Severe Anormal Aluminum (ppm) Severe Anormal Copper (ppm) Severe Copper (ppm) Copper (ppm) Copp	blor bitom bitom CRAPHS ron (ppm) Chromium (ppm) Anonmal An	Aluminum (ppm) Aluminum (ppm)

To discuss this sample 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.

Report Id: KIR370KIR [WCAMIS] 02629745 (Generated: 04/17/2024 16:44:41) Rev: 1

CALA

ISO 17025:2017 Accredited Laboratory

Contact/Location: Mitch Lamontagne - KIR370KIR

F: (705)567-5221