

## **OIL ANALYSIS REPORT**

Sample Rating Trend



# EPIROC SX1030 SCP218

**Rear Differential** 

PENNZOIL SYNTHETIC SAE 75W140 GL-5 (--- GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

Elui

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

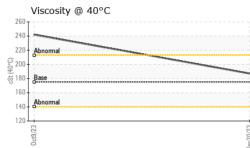
The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0883830	WC0865521	
Sample Date		Client Info		20 Dec 2023	09 Oct 2023	
Machine Age	hrs	Client Info		4120	3739	
Oil Age	hrs	Client Info		500	500	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	۷	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>500	7	14	
Chromium	ppm	ASTM D5185(m)	>10	0	0	
Nickel	ppm	ASTM D5185(m)	>10	<1	0	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		0	<1	
Aluminum	ppm	ASTM D5185(m)	>25	1	<1	
Lead	ppm	ASTM D5185(m)	>25	0	0	
Copper	ppm	ASTM D5185(m)		<1	<1	
Tin	ppm	ASTM D5185(m)	>10	0	0	
Antimony	ppm	ASTM D5185(m)	>5	0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		136	230	
Barium	ppm	ASTM D5185(m)		0	<1	
Molybdenum	ppm	ASTM D5185(m)		0	0	
Manganese	ppm	ASTM D5185(m)		0	0	
Magnesium	ppm	ASTM D5185(m)		1	<1	
Calcium	ppm	ASTM D5185(m)		11	5	
Phosphorus	ppm	ASTM D5185(m)		851	941	
Zinc	ppm	ASTM D5185(m)		5	4	
Sulfur	ppm	ASTM D5185(m)		17963	19445	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>75	6	4	
Sodium	ppm	ASTM D5185(m)		<1	<1	
Potassium	ppm	ASTM D5185(m)	>20	1	0	



## **OIL ANALYSIS REPORT**

VISUAL



White Metal	scalar	Visual*	NONE	NONE	NONE	
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
Precipitate						
				-		
			>.2			
Free Water	scalar	Visual*		NEG	NEG	
FLUID PROPERT	TIES	method	limit/bas	e curr	rent history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	175	187	242	
SAMPLE IMAGE	S	method	limit/bas	e curr	rent history1	history2
Color						no image
Bottom						no image
GRAPHS						
Iron (ppm)				Lead (p	opm)	
000 Severe				Smuara		
000						
Abnormal				50 - Abnormal		
2			23	53		23
0ct9/			lec20/	0ct9/		Dec20/23
Aluminum (nom)				Chromi	ium (nnm)	
Aluminum (ppm)				20 -	ium (ppm)	
Severe				00000		
50 Abnormal				Abnormal		
			_	0		
ct9/23			20/23	ct9/23		Dec20/23
			Dec			Deci
Copper (ppm)					(ppm)	
Courses				Smuara		
Abnormal			dd	200		
				4		
9/23			0/23			1/23
0.04			Dec2(	Octi		Dec20/23
Viscosity @ 40°C			1		es	
Abnormal					calcium	
150 - Abnormal			bbr	500-	zinc	
100				0		
0ct9/23			Dec20/23	0ct9/23		Dec20/23
ŏ			Dec	ŏ		E.
	Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water Fluid PROPER Visc @ 40°C SAMPLE IMAGE Color Bottom GRAPHS Iron (ppm) Anomal Anomal Copper (ppm) Copper (ppm) Copper (ppm) Viscosity @ 40°C	Precipitate scalar Silt scalar Debris scalar Sand/Dirt scalar Appearance scalar Odor scalar Emulsified Water scalar Free Water scalar FLUID PROPERTIES Visc @ 40°C cSt SAMPLE IMAGES Color Color Bottom GRAPHS Iron (ppm) Anormal Anormal Copper (ppm) Copper (ppm) Co	Precipitate scalar Visual* Silt scalar Visual* Debris scalar Visual* Sand/Dirt scalar Visual* Appearance scalar Visual* Odor scalar Visual* Emulsified Water scalar Visual* Free Water scalar Visual* Free Water scalar Visual* FLUID PROPERTIES method Visc @ 40°C cSt ASTM D7279(m) SAMPLE IMAGES method Color GRAPHS Iron (ppm) GRAPHS Iron (ppm) Severe Anonmal Copper (ppm) Severe Anonmal Viscosity @ 40°C Severe Anonmal Copper (ppm) Severe Anonmal Copper (ppm) Copper (ppm)	Precipitate scalar Visual* NONE Silt scalar Visual* NONE Debris scalar Visual* NONE Sand/Dirt scalar Visual* NONE Appearance scalar Visual* NORML Odor scalar Visual* NORML Emulsified Water scalar Visual* >.2 Free Water scalar Visual* >.2 Free Water scalar Visual* >.2 Free Water scalar Visual* Scalar Visual* FLUID PROPERTIES method imit/bas Visc @ 40°C cSt ASTM D7279(m) 175 SAMPLE IMAGES method imit/bas Color GRAPHS Iron (ppm) Gramma for the scalar of the sca	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  NORM    Odor  scalar  Visual*  NORM  NOR    Free Water  scalar  Visual*  NORM  NOR    Visc @ 40°C  cSt  ASTMD7279(m)  175  187    SAMPLE IMAGES  method  limit/base  curr    Color  Iron (ppm)	Precipitate  scalar  Visual*  NONE  NONE  NONE  NONE    Silt  scalar  Visual*  NONE  NONE  NONE  NONE    Debris  scalar  Visual*  NONE  NONE  NONE  NONE    Sand/Dirt  scalar  Visual*  NONE  NONE  NONE  NONE    Appearance  scalar  Visual*  NORML  NORML  NORML  NORML    Odor  scalar  Visual*  NORML  NORML  NORML  NORML    Codor  scalar  Visual*  NORML  NORML  NORML  NORML    Codor  scalar  Visual*  >.2  NEG  NEG    FlUID PROPERTIES  method  imit/base  current  history1    Visc @ 40°C  cSt  ASTM07279(m)  175  187  242    SAMPLE IMAGES  method  imit/base  current  history1    Color  stata  stata  stata  stata  stata  stata    off  gig  gig  gig  gig

Contact/Location: Mitch Lamontagne - KIR370KIR