

OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



DIAGNOSIS

Wear

Contamination

Fluid Condition

EPIROC ST7 SCP209 Component

Hydraulic System

SHELL TELLUS S2 MX 46 (--- GAL)

SAMPLE INFORMATION method limit/base current history1 history2 WC0886137 WC0848151 Sample Number **Client Info** Recommendation Confirm the source of the lubricant being utilized for Sample Date Client Info 24 Dec 2023 16 Sep 2023 top-up/fill. Resample at the next service interval to 5505 5831 Machine Age hrs **Client Info** monitor. Please contact your representative for Oil Age hrs Client Info 0 0 information regarding the proper sampling kits for Oil Changed **Client Info** Changed N/A your service. NOTE: We recommend using MOB 2 ABNORMAL Sample Status NORMAL test kits, this testkit includes Particle Count to determine the ISO cleanliness of the fluid. CONTAMINATION method limit/base current history1 history2 Water NEG WC Method >0.1 NEG All component wear rates are normal. WEAR METALS limit/base method current history1 history2 There is no indication of any contamination in the Iron ppm ASTM D5185(m) >20 3 3 component(unconfirmed). Chromium ASTM D5185(m) >10 0 <1 ppm 0 Nickel ppm ASTM D5185(m) >10 ~1 Viscosity of sample indicates oil is within ISO 68 Titanium ASTM D5185(m) 0 0 ppm range, advise investigate. This plus the additive 0 Silver n ppm ASTM D5185(m) levels indicates that this is not the same brand, or Aluminum ppm ASTM D5185(m) >10 1 <1 type of oil as reported. The condition of the oil is acceptable for the time in service. ASTM D5185(m) >10 0 Lead <1 ppm >75 <1 Copper ppm ASTM D5185(m) <1 0 Tin ASTM D5185(m) >10 0 ppm Antimony 0 0 ppm ASTM D5185(m) Vanadium 0 0 ppm ASTM D5185(m) Beryllium ppm ASTM D5185(m) 0 0 0 0 Cadmium ppm ASTM D5185(m) **ADDITIVES** method limit/base current historv1 historv2 Boron maa ASTM D5185(m) 0 5 1 Barium ASTM D5185(m) O 0 0 ppm Molybdenum ASTM D5185(m) 0 4 7 ppm ASTM D5185(m) O 0 Manganese 0 ppm Magnesium ASTM D5185(m) 70 53 109 ppm Calcium ppm ASTM D5185(m) 10 209 177 Phosphorus ppm ASTM D5185(m) 300 390 455 325 520 Zinc ppm ASTM D5185(m) 470 Sulfur ASTM D5185(m) 665 4961 2965 ppm Lithium ppm ASTM D5185(m) <1 <1 history2 CONTAMINANTS method limit/base current history1 Silicon ASTM D5185(m) >20 2 1 ppm Sodium ppm ASTM D5185(m) <1 <1

Potassium

ppm

ASTM D5185(m)

>20

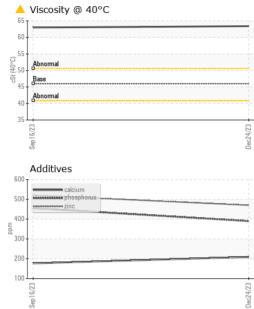
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OIL ANALYSIS REPORT

VISUAL



	VISUAL		method	limit/base	9	current	history1	history2
	White Metal	scalar	Visual*	NONE	N	ONE	NONE	
	Yellow Metal	scalar	Visual*	NONE	N	ONE	NONE	
 	Precipitate	scalar	Visual*	NONE		ONE	NONE	
	Silt	scalar	Visual*	NONE	N	ONE	NONE	
	Debris	scalar	Visual*	NONE		ONE	NONE	
	Sand/Dirt	scalar	Visual*	NONE	N	ONE	NONE	
 4/23	Appearance	scalar	Visual*	NORML		ORML	NORML	
Dec24/23	Odor	scalar	Visual*	NORML		ORML	NORML	
	Emulsified Water	scalar	Visual*	>0.1		EG	.2%	
	Free Water	scalar	Visual*			EG	NEG	
				1				history O
 	FLUID PROPER		method	limit/base		current	history1	history2
	Visc @ 40°C	cSt	ASTM D7279(m)	46.0	▲ 63	3.4	63.0	
 	SAMPLE IMAGE	S	method	limit/base	e	current	history1	history2
 Dec24/23	Color							no image
	Bottom							no image
	GRAPHS							
	Iron (ppm)				0.0	d (ppm)		
	40 Severe				30 20	re		
ppn	20 - Abnormal			nga	20 10 Abno	ormal		
	0							
	Sep 16/23			Dec24/23	Sep 16/23			
				De		. ,		
	Aluminum (ppm)				Chr ³⁰ T Seve	omium (ppm)	
	Q							
ppr	20 10 Abnormal			DD	20 10 Abno	ormal		
	Sep 16/23			Dec24/23	Sep 16/23			
				De	0,		_	
4	Copper (ppm)				Silio	con (ppm)	
	0				0	re		
ш ² 1	100 - Abnormal			l	40 20 Abno	ormal		
	0				0			
	Sep 16/23			Dec24/23	Sep16/23			
				Dec				
	Viscosity @ 40°C					litives		
					400	calcium		
cSt (40°C)	40 - Bunomal			ď	200 -	aaaaaaa phospho	rus	
	20							
	Sep 16/23			Dec24/23	Sep 16/23			
	in the second se			Der	Sep			

method limit/base

current

history1

history2

Report Id: KIR370KIR [WCAMIS] 02606585 (Generated: 01/09/2024 09:04:15) Rev: 1

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Contact/Location: Mike Campbell - KIR370KIR