

OIL ANALYSIS REPORT

Sample Rating Trend CSDM Pere Marquette A1 [63052]



WATER

REFRIGERATION OIL (POE) (--- GAL)

CARRIER 0108Q08666(A)

DIA	$\cup S$	5
D	00	

Recommendation

If not recently done change any filter driers to reduce moisture level. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Component Chiller Fluid

Wear

All component wear rates are normal.

Contamination

The elevated moisture content is associated with POE oils which are hygroscopic, and can absorb moisture from sampling and processing.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GTT0001293	GTT303	GTT304
Sample Date		Client Info		14 Sep 2023	14 Dec 2022	13 Jun 2022
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>8	2	2	2
Chromium	ppm	ASTM D5185(m)	>2	0	<1	<1
Nickel	ppm	ASTM D5185(m)		<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>3	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>2	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>8	1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	<1	<1
Antimony	ppm	ASTM D5185(m)		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)	0	<1		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	0	0		
Manganese	ppm	ASTM D5185(m)	0	0		
Magnesium	ppm	ASTM D5185(m)	0	0		
Calcium	ppm	ASTM D5185(m)	10	0		
Phosphorus	ppm	ASTM D5185(m)	250	46		
Zinc	ppm	ASTM D5185(m)	0	1	<1	<1
Sulfur	ppm	ASTM D5185(m)	400	32		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	16		
Sodium	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)	>20	<1		
ppm Water	ppm	ASTM D6304*	>200	416	126	4 79
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.07	0.02	0.003	0.014



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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	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)		169		
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image
GRAPHS			-			



 Sample No.
 : GTT0001293
 Recieved
 : 28 Dec 2023
 C/O Conduent Div of Car

 Lab Number
 : 02605710
 Diagnosed
 : 09 Jan 2024

 Unique Number
 : 5698795
 Diagnostician
 : Bill Quesnel

 Test Package
 : IND 2 (Additional Tests: KV40)
 Con

 To discuss this sample report, contact Customer Service at 1-905-847-9300 Ext 26.
 Brian.Ra

 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Damages: Seller shall in no event be liable for special, incidental, or consequential damages, of a commercial nature, resulting from any cause.

Carrier Commerical Service C/O Conduent Div of Carrier Canada, 1-2740 Matheson Blvd Mississauga, ON CA L4W 4X3 Contact: Brian Raymundo Brian.Raymundo@carrier.com T: n any cause. F: