

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Area Global Assy MLG/Rig 5 DEC 4124

Hydraulic System Fluid LANXESS ROYCO 756 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

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

SAMPLE INFORM	IATI <u>ON</u>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0929850	WC0920425	
Sample Date		Client Info		03 Apr 2024	12 Mar 2024	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	٧	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	0	0	
Chromium	ppm	ASTM D5185(m)	>20	0	0	
Nickel	ppm	ASTM D5185(m)	>20	0	0	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		0	0	
Aluminum	ppm	ASTM D5185(m)	>20	0	<1	
Lead	ppm	ASTM D5185(m)	>20	0	0	
Copper	ppm	ASTM D5185(m)	>20	0	0	
Tin	ppm	ASTM D5185(m)	>20	0	0	
Antimony	ppm	ASTM D5185(m)		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
ADDITIVES		method	initit/base	Current	TIIStOLA	motory
Boron	ppm	ASTM D5185(m)	minubase	0	0	
	ppm ppm					
Boron		ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0	0	
Boron Barium	ppm	ASTM D5185(m) ASTM D5185(m)		0 4	0 4	
Boron Barium Molybdenum	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 4 0	0 4 0	
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 4 0 0 0 0	0 4 0 0 <1 6	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 4 0 0 0 0 657	0 4 0 0 <1 6 414	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 4 0 0 0 0 657 <1	0 4 0 0 <1 6 414 3	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 4 0 0 0 657 <1 96	0 4 0 0 <1 6 414 3 117	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 4 0 0 0 0 657 <1	0 4 0 0 <1 6 414 3	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 4 0 0 0 657 <1 96 <1 2 0	0 4 0 0 <1 6 414 3 117	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	0	0 4 0 0 0 657 <1 96 <1 2 1 0	0 4 0 <1 6 414 3 117 <1	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0	0 4 0 0 0 657 <1 96 <1 2 0	0 4 0 <1 6 414 3 117 <1 <i>history1</i> 0 0	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	ppm	ASTM D5185(m) ASTM D5185(m)	0	0 4 0 0 0 657 <1 96 <1 2 1 0	0 4 0 0 <1 6 414 3 117 <1 history1 0	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	0 limit/base >15	0 4 0 0 0 657 <1 96 <1 2 1 0 0 0 4	0 4 0 <1 6 414 3 117 <1 <i>history1</i> 0 0	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	0 	0 4 0 0 0 657 <1 96 <1 2 1 0 0 0 4	0 4 0 0 <1 6 414 3 117 <1 history1 0 0 0 <1	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	0 	0 4 0 0 6 5 7 <1 9 6 <1 2 0 0 0 <1 2 0 0 0 <1	0 4 0 0 <1 6 414 3 117 <1 history1 0 0 <1 history1	 history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	0 	0 4 0 0 0 657 <1 96 <1 <i>current</i> 0 0 <1 <i>current</i> 417	0 4 0 0 <1 6 414 3 117 <1 history1 0 0 <1 history1 4894	 history2 history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	0 limit/base >15 >20 limit/base >5000 >1300 >160	0 4 0 0 0 657 <1 96 <1 <i>current</i> 0 0 <1 <i>current</i> 417 93	0 4 0 0 <1 6 414 3 117 <1 history1 0 0 <1 history1 4894 1026	 history2 history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D76477 ASTM D7647	0 limit/base >15 >20 limit/base >5000 >1300 >160	0 4 0 0 0 657 <1 96 <1 0 current 0 0 <1 0 4 17 93 10	0 4 0 0 <1 6 414 3 117 <1 <i>history1</i> 0 0 0 <1 <i>history1</i> 4894 1026 29	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D76477 ASTM D76477 ASTM D7647	0 limit/base >15 >20 limit/base >5000 >1300 >160 >40 >10	0 4 0 0 0 657 <1 96 <1 0 current 0 0 <1 0 <1 2 1 0 0 4 10 4	0 4 0 0 <1 6 414 3 117 <1 history1 0 0 <1 history1 4894 1026 29 5	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium PtuliD CLEANLIN Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	0 limit/base >15 >20 limit/base >5000 >1300 >160 >40 >10	0 4 0 0 6 57 <1 96 <1 Current 0 0 <1 Current 417 93 10 4 1 0 10 4 1	0 4 0 0 <1 6 414 3 117 <1 history1 0 0 <1 history1 4894 1026 29 5 1	history2 history2 history2



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1k 0k Mar12/24

0.05

(B/HOX BW) 0.03 Ba

-a 0.02 Piq 0.01 0.00

17-16 Al

CSt (40°C) 13 Abnorma

> 12 11 Mar12/24

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f particles (1 ml) % 45 45 f ie 2k In 1k 0k Mar12/24

OIL ANALYSIS REPORT

Particle Trend	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
μοποιπια- 4μm	Acid Number (AN)	mg KOH/g	ASTM D974*	0.04	0.02	0.03	
14µm	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	Visual*	NONE	NONE	NONE	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
And and the street was been to and the street was the	Precipitate	scalar	Visual*	NONE	NONE	NONE	
24	Silt	scalar	Visual*	NONE	NONE	NONE	
Mar12/24 Apr3/24	Debris	scalar	Visual*	NONE	NONE	NONE	
	Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
Acid Number	Appearance	scalar	Visual*	NORML	NORML	NORML	
Base	Odor	scalar	Visual*	NORML	NORML	NORML	
0	Emulsified Water	scalar	Visual*	>0.05	NEG	NEG	
	Free Water	scalar	Visual*		NEG	NEG	
	FLUID PROPERT	IES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D7279(m)	14.2	14.1	14.3	
Apr3/24	SAMPLE IMAGES	3	method	limit/base	current	history1	history2
s Viscosity @ 40°C Abnormal	Color						no image
Base	Pottom						no imago
Abnormal	Bottom						no image
	GRAPHS						
- Б ису	Ferrous Alloys				Particle Count		
V VIII	¹⁰ T			491,520	I		T ²⁶
Particle Trend	E c			122,880	t		-24
	E 5- mickel			30,720	Severe		+22
Aphonnan 4µm 6µm	0			- 7.680	Abnormal		-20
14µm	Mar12/24			r3/24			20
	Mar			de <u>ad</u> 1.920 say			-18 -16 -14
	Non-ferrous Metal	5		1480 1480			-16
	copper			jo 120			1
2	E 5-			Fe 30			-12
₽ CL Crrry				8			-10
	24 0			24			8
	Mar12/2			Apr3/24			
	 Viscosity @ 40°C		4	Acid Number	4μ 21μ	38µ 71µ	
	18 T		울 0.06				
	La Abnormal Base Abnormal Abnormal			(Мро.06 Мох ш 0.04	Base		
	Abnormal						
	12			20.0 gr			
				Apr3/24	2/24		Anr.7.6
	Mar12/24			Apri	Mar12/2 ⁴		Δηζ
Iso 17025:2017 Accredited Unique Number	: 5759740 : IND 2 (Additional Tes <i>contact Customer Servi</i>	Recei Teste Diagn ts: TAN M ce at 1-8	ved : 04 d : 05 osed : 05 Man) 00-268-2131	Apr 2024 Apr 2024 Apr 2024 - Kevi	n Marson	574	ding Systems Monarch Ave Ajax, ON CA L1S 2G8 I: Stuart Potte frangroup.con T:

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Contact/Location: Stuart Potter - SAFAJA2 Page 2 of 2