

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Utilities Machine Id Keeler I.D. Fan East

Component

Case Drain Journal Bearing

ROYAL PURPLE SYNFILM 68 (2 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

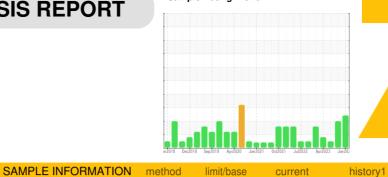
All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

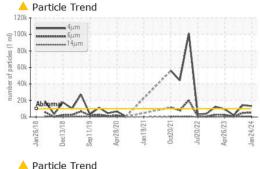
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



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Sample Number		Client Info		WC0783921	WC0726073	WC0816928
Sample Date		Client Info		24 Jan 2024	30 Oct 2023	26 Jul 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINATIO	V	method	limit/base	current	history1	history2
Water		WC Method	>2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>60	0	0	<1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>4	<1	<1	<1
Lead	ppm	ASTM D5185m	>250	5	4	3
Copper	ppm	ASTM D5185m	>125	2	2	<1
Tin	ppm	ASTM D5185m	>80	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m		0 <1	0	0 <1
•			90			
Manganese	ppm	ASTM D5185m	90	<1	0	<1
Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m	90	<1 75	0 84	<1 79
Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	90	<1 75 0	0 84 2	<1 79 0
Manganese Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	90	<1 75 0	0 84 2 <1	<1 79 0 7
Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	90 limit/base	<1 75 0 1	0 84 2 <1 0	<1 79 0 7
Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		<1 75 0 1 0 16951	0 84 2 <1 0 18417	<1 79 0 7 0 22956
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base	<1 75 0 1 0 16951 current	0 84 2 <1 0 18417 history1	<1 79 0 7 0 22956 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	limit/base	<1 75 0 1 0 16951 current <1	0 84 2 <1 0 18417 history1	<1 79 0 7 0 22956 history2 <1
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	limit/base >50	<1 75 0 1 0 16951 current <1 2	0 84 2 <1 0 18417 history1 <1	<1 79 0 7 0 22956 history2 <1 0
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >50 >20	<1 75 0 1 0 16951 current <1 2 4	0 84 2 <1 0 18417 history1 <1 1	<1 79 0 7 0 22956 history2 <1 0 4
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m	limit/base >50 >20 limit/base >10000	<1 75 0 1 0 16951 current <1 2 4 current 13377	0 84 2 <1 0 18417 history1 <1 1 2 history1 14208	<1 79 0 7 0 22956 history2 <1 0 4 history2 2135
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >50 >20 limit/base	<1 75 0 1 0 16951 current <1 2 4 current	0 84 2 <1 0 18417 history1 <1 1 2	<1 79 0 7 0 22956 history2 <1 0 4 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	limit/base >50 >20 limit/base >10000 >2500	<1 75 0 1 0 16951 current <1 2 4 current ▲ 13377 ▲ 5087 ▲ 897	0 84 2 <1 0 18417 history1 <1 1 2 history1 △ 14208 △ 4866 △ 730	<1 79 0 7 0 22956 history2 <1 0 4 history2 2135 484
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m	limit/base >50 >20 limit/base >10000 >2500 >160	<1 75 0 1 0 16951 current <1 2 4 current ▲ 13377 ▲ 5087	0 84 2 <1 0 18417 history1 <1 1 2 history1 ▲ 14208 ▲ 4866	<1 79 0 7 0 22956 history2 <1 0 4 history2 2135 484 35
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >50 >20 limit/base >10000 >2500 >160 >40 >10	<1 75 0 1 0 16951 current <1 2 4 current ▲ 13377 ▲ 5087 ▲ 897 ▲ 264 ▲ 15	0 84 2 <1 0 18417 history1 <1 1 2 history1 ▲ 14208 ▲ 4866 ▲ 730 ▲ 183 7	<1 79 0 7 0 22956 history2 <1 0 4 history2 2135 484 35 9
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	limit/base >50 >20 limit/base >10000 >2500 >160 >40	<1 75 0 1 0 16951 current <1 2 4 current ▲ 13377 ▲ 5087 ▲ 897 ▲ 264	0 84 2 <1 0 18417 history1 <1 1 2 history1 ▲ 14208 ▲ 4866 ▲ 730 ▲ 183	<1 79 0 7 0 22956 history2 <1 0 4 history2 2135 484 35 9 2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >50 >20 limit/base >10000 >2500 >160 >40 >10 >3	<1 75 0 1 0 16951 current <1 2 4 current ▲ 13377 ▲ 5087 ▲ 897 ▲ 264 ▲ 15 1	0 84 2 <1 0 18417 history1 <1 1 2 history1 △ 14208 △ 4866 △ 730 △ 183 7 0	<1 79 0 7 0 22956 history2 <1 0 4 history2 2135 484 35 9 2 1



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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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
Emulsified Water	scalar	*Visual	>2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IFS:	method	limit/base	current	history1	history2

120k -	4j.	im im				٨		
80k +		pain				/\		
60k -					1	1		
a 40k -					·V	1		
80k - 60k - 60k - 20k - 20k - 60k -	Abroma	Λ						
0k	Same		1	No. of Lot of Lot		1		and the same
00	8	1/19	Apr28/20	Jan 19/21	0/21	Jul20/22	Apr26/23	
Jan 26/18	Dec13/	Sep11						

70.5 Visc @ 40°C cSt ASTM D445 68 73.6 69.9

SAMPLE IMAGES

Color

method

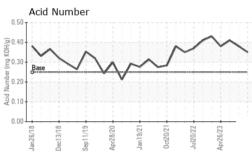
limit/base

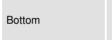
current

history2 history1

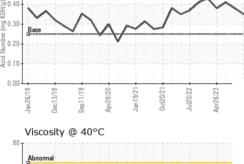


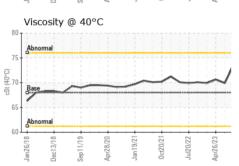


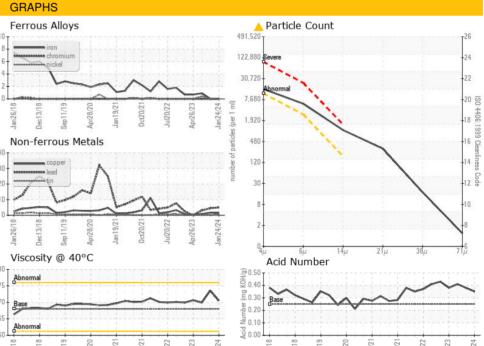
















Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: 06075724 : 10857815

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: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : WC0783921

Diagnosed Diagnostician : Don Baldridge Test Package : IND 2 (Additional Tests: PrtCount)

: 31 Jan 2024 : 01 Feb 2024

INGREDION INC WINSTON SALEM PLANT, 4501 OVERDALE ROAD WINSTON SALEM, NC

US 27107 Contact: MATTHEW KING matthew.king@ingredion.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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