

OIL ANALYSIS REPORT

Sample Rating Trend

Area **Redpath Sugar - T02900** A2406182

Turbine Fluid R&O OIL ISO 46 (--- GAL)

DIAGNOSIS

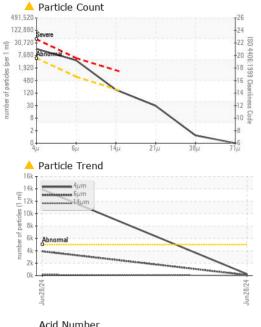
Contamination

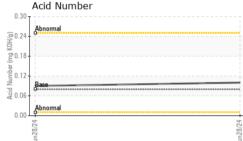
Particles $>4\mu m$ are abnormally high. Particles $>6\mu m$ and oil cleanliness are abnormally high.

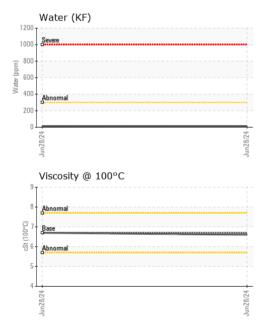
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Batch #		Client Info		Mobile	Mobile	
Department		Client Info		Production	Production	
Sample From		Client Info		Machine	Machine	
Production Stage		Client Info		Initial	Final	
Sent to WC		Client Info		06/28/2024	06/28/2024	
Sample Number		Client Info		E30002531	E30002532	
Sample Date		Client Info		28 Jun 2024	28 Jun 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				ABNORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>15	<1	0	
Chromium	ppm	ASTM D5185(m)	>4	0	0	
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		0	0	
Aluminum	ppm	ASTM D5185(m)	>10	<1	<1	
Lead	ppm	ASTM D5185(m)		0	0	
Copper	ppm	ASTM D5185(m)	>5	<1	<1	
Tin	ppm	ASTM D5185(m)	>5	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
Boron	ppm	ASTM D5185(m)	5	0	0	
Barium	ppm	ASTM D5185(m)	5	0	0	
Molybdenum	ppm	ASTM D5185(m)	5	0	0	
Manganese	ppm	ASTM D5185(m)		0	0	
Magnesium	ppm	ASTM D5185(m)	5	0	0	
Calcium	ppm	ASTM D5185(m)	5	<1	<1	
Phosphorus	ppm	ASTM D5185(m)	100	28	26	
Zinc	ppm	ASTM D5185(m)	25	1	1	
Sulfur	ppm	ASTM D5185(m)	1500	91	92	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	0	0	
Sodium	ppm	ASTM D5185(m)		0	0	
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	
Water	%	ASTM D6304*	>0.03	0.001	0.001	
ppm Water	ppm	ASTM D6304*	>300	11	13	



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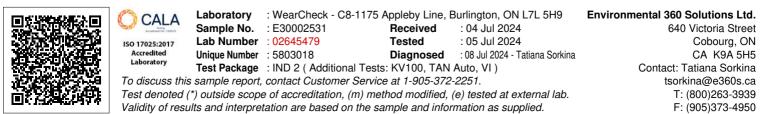






FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1 3913	248	
Particles >6µm		ASTM D7647	>640	A 3913	86	
Particles >14µm		ASTM D7647	>160	153	7	
Particles >21µm		ASTM D7647	>40	26	2	
Particles >38µm		ASTM D7647	>10	1	1	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/16/14	A 21/19/14	15/14/10	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.08	0.10	0.09	
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
Precipitate	scalar	Visual*	NONE	NONE	NONE	
Silt	scalar	Visual*	NONE	NONE	NONE	
Debris	scalar	Visual*	NONE	NONE	NONE	
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
Appearance	scalar	Visual*	NORML	NORML	NORML	
Odor	scalar	Visual*	NORML	NORML	NORML	
Emulsified Water	scalar	Visual*	>0.03	NEG	NEG	
Free Water	scalar	Visual*		NEG	NEG	
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46	43.3	43.1	
Visc @ 100°C	cSt	ASTM D7279(m)	6.7	6.6	6.7	
Viscosity Index (VI)	Scale	ASTM D2270*	97	103	108	
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				1531	E-000253	no image

Bottom



Contact/Location: Tatiana Sorkina - CHECOB

no image