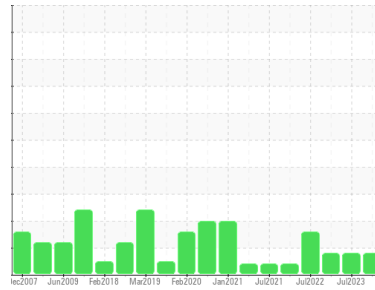




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
COALMILL-2/KI/TC

Component
Gearbox

Fluid
ROYAL PURPLE THERMYL-GLYDE WORM GEAR ISO 460 (--- LTR)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please note that this is a corrected copy for laboratory data update for AN.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

An increase in the AN level is noted. Confirmed. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0807335	WC0807295	WC0695050
Sample Date	Client Info		11 Jan 2024	03 Jul 2023	16 Jan 2023
Machine Age	mths	Client Info	0	21	0
Oil Age	mths	Client Info	28	0	15
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>200	0	4	5
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	1	<1
Lead	ppm	ASTM D5185m	>100	<1	2	<1
Copper	ppm	ASTM D5185m	>200	52	45	47
Tin	ppm	ASTM D5185m	>25	4	2	4
Vanadium	ppm	ASTM D5185m		0	<1	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
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		71	66	65
Calcium	ppm	ASTM D5185m	190	2	<1	0
Phosphorus	ppm	ASTM D5185m		5	10	12
Zinc	ppm	ASTM D5185m		1619	1700	1423
Sulfur	ppm	ASTM D5185m		12438	15565	13107

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>50	4	3	4
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	0	4	0
Water	%	ASTM D6304	>0.2	NEG	NEG	NEG

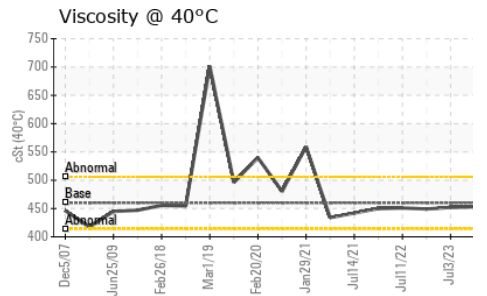
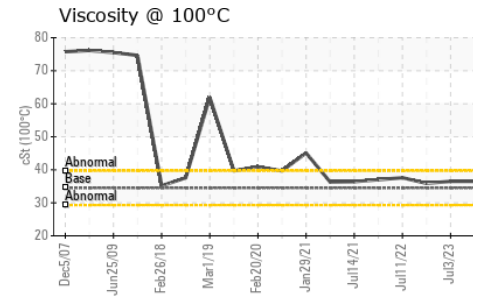
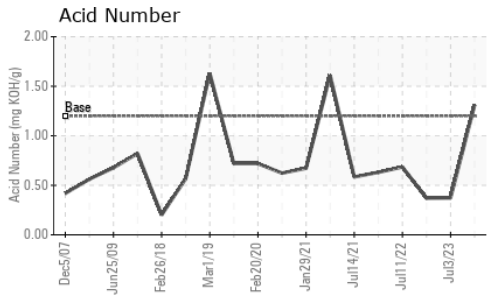
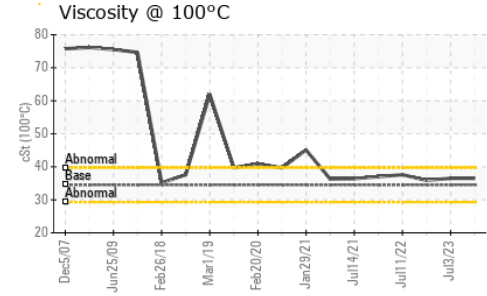
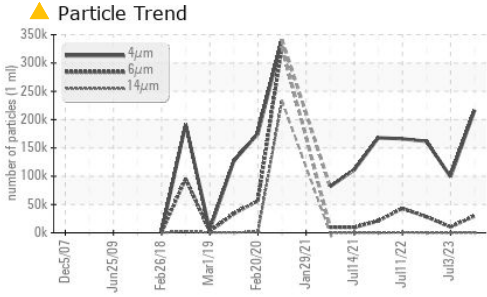
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		216591	98932	161515
Particles >6µm	ASTM D7647	>5000	▲ 29641	▲ 10280	▲ 28398
Particles >14µm	ASTM D7647	>640	429	63	274
Particles >21µm	ASTM D7647	>160	73	12	42
Particles >38µm	ASTM D7647	>40	2	0	1
Particles >71µm	ASTM D7647	>10	1	0	0
Oil Cleanliness	ISO 4406 (c)	>--/19/16	▲ 25/22/16	▲ 24/21/13	▲ 25/22/15

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	1.2	1.31	0.372	0.37

OIL ANALYSIS REPORT



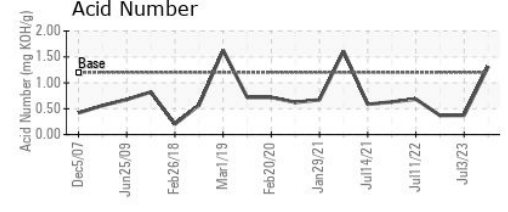
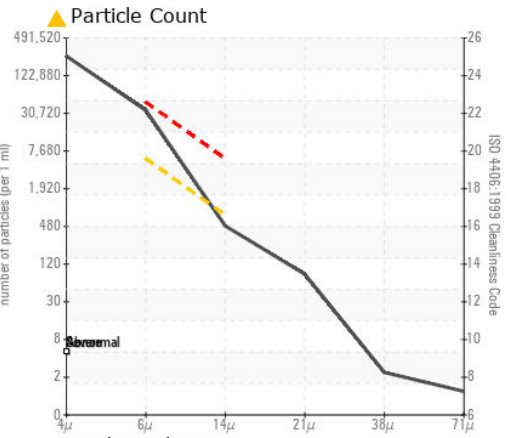
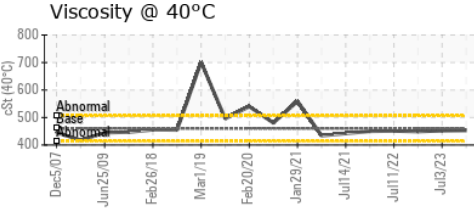
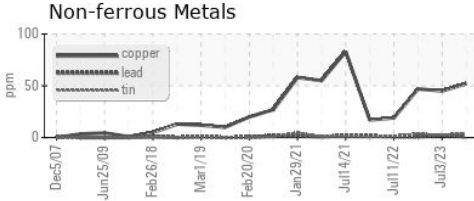
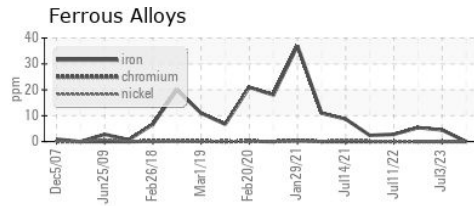
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	460	453	452
Visc @ 100°C	cSt	ASTM D445	34.5	36.5	35.9
Viscosity Index (VI)	Scale	ASTM D2270	112	121	120

SAMPLE IMAGES

method	limit/base	current	history1	history2
Color				
Bottom				

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0807335 **Received** : 19 Jan 2024
Lab Number : 06065588 **Tested** : 23 Jan 2024
Unique Number : 10836970 **Diagnosed** : 07 Feb 2024 - Doug Bogart
Test Package : PLANT (Additional Tests: KV100, VI)

J/POWER-BD
 JP
 Contact: KENTO OKUHARA
 Mitsuo_Miyahara@jpower.co.jp
 T:
 F: x:

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)