



PERFORMANCE
UNDER
PRESSURE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
EIMCO AERATOR 2 (S/N 23651-01-A)

Component
Gearbox

Fluid
GEAR OIL SAE 80W90 (7 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RP0034265	RP0029530	RP0017342
Sample Date		Client Info		31 Aug 2023	17 Jul 2022	26 Jan 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	175	171	167
Chromium	ppm	ASTM D5185m	>15	2	3	2
Nickel	ppm	ASTM D5185m	>15	2	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	9	6	7
Lead	ppm	ASTM D5185m	>100	<1	<1	0
Copper	ppm	ASTM D5185m	>200	16	11	14
Tin	ppm	ASTM D5185m	>25	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

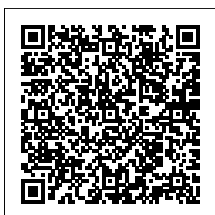
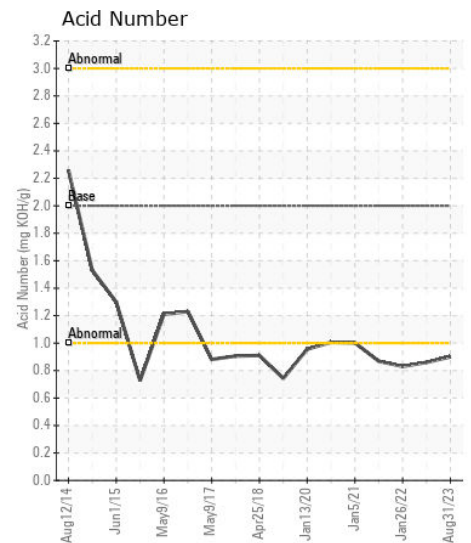
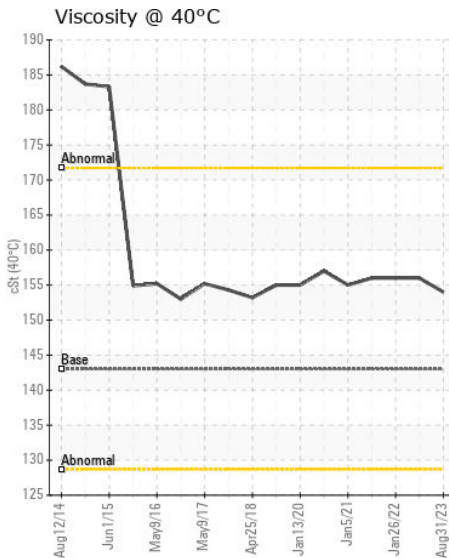
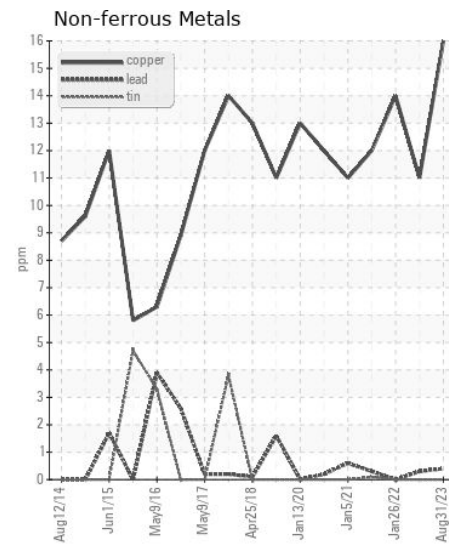
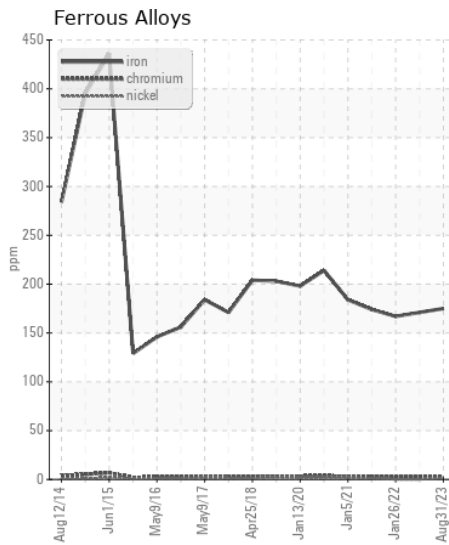
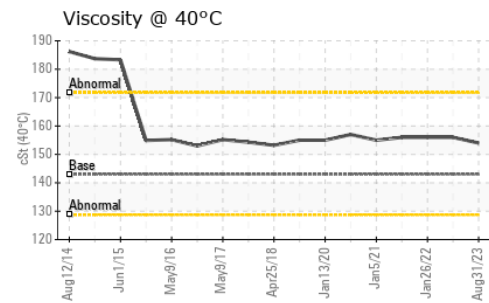
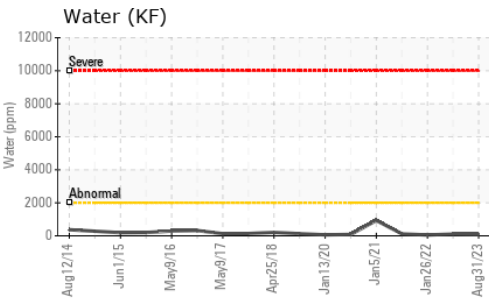
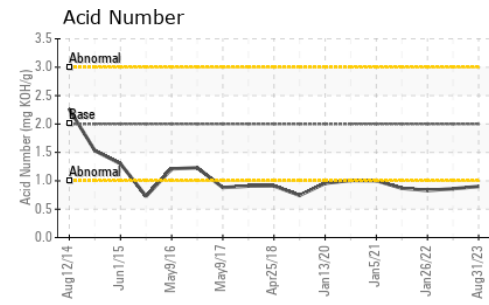
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	34	26	24
Potassium	ppm	ASTM D5185m	>20	1	1	0
Water	%	ASTM D6304	>0.2	0.007	0.010	0.005
ppm Water	ppm	ASTM D6304	>2000	73.2	107.6	50.1
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	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>170	0	0	0
Boron	ppm	ASTM D5185m	400	0	<1	<1
Barium	ppm	ASTM D5185m	200	2	0	<1
Molybdenum	ppm	ASTM D5185m	12	<1	0	<1
Manganese	ppm	ASTM D5185m		2	2	2
Magnesium	ppm	ASTM D5185m	12	3	2	2
Calcium	ppm	ASTM D5185m	150	6	6	14
Phosphorus	ppm	ASTM D5185m	1650	625	535	547
Zinc	ppm	ASTM D5185m	125	38	28	34
Acid Number (AN)	mg KOH/g	ASTM D8045	2.00	0.90	0.86	0.83
Visc @ 40°C	cSt	ASTM D445	143	154	156	156



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0034265
Lab Number : 05940857
Unique Number : 10631469
Test Package : IND 2
Received : 01 Sep 2023
Tested : 05 Sep 2023
Diagnosed : 06 Sep 2023 - Don Baldrige

SUFFIELD WWTF
 844 EAST ST
 SUFFIELD, CT
 US 06078
 Contact: Julie Nigro
 jnigro@suffieldct.gov
 T: (860)668-3856
 F: (860)668-3858

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)