



WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id
RAYCO C87D 9X3 (S/N C87D00191004)

Component
Hydraulic System

Fluid
SHELL TELLUS T46 (20 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

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

FLUID CONDITION

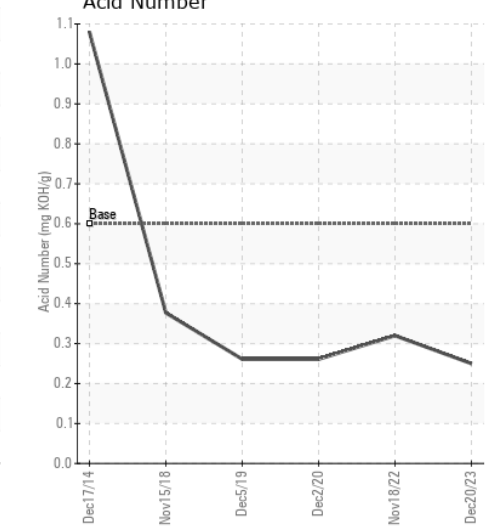
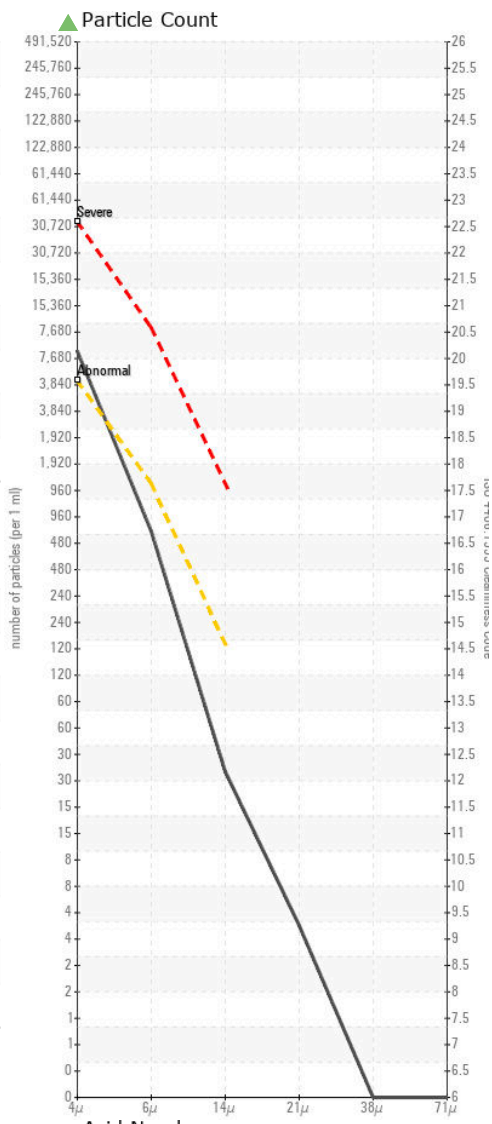
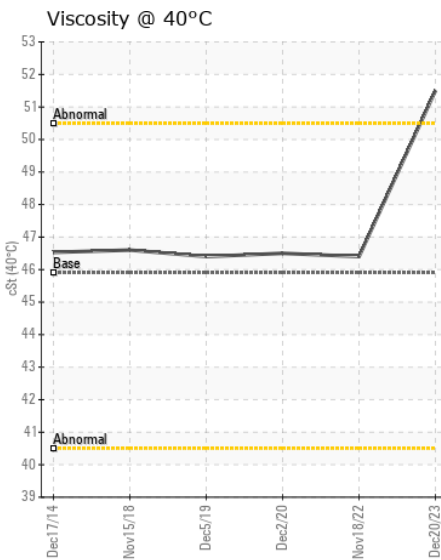
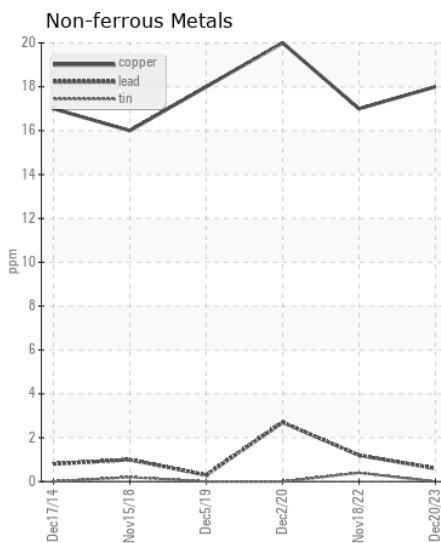
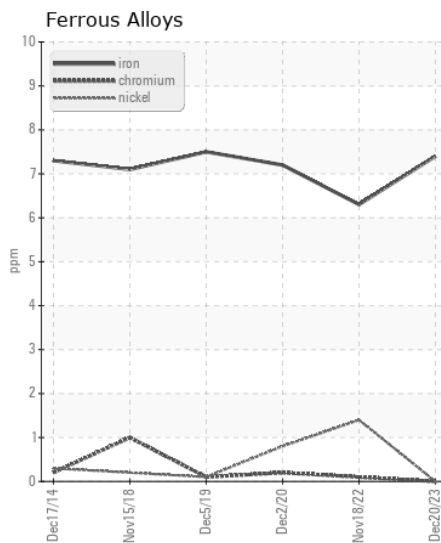
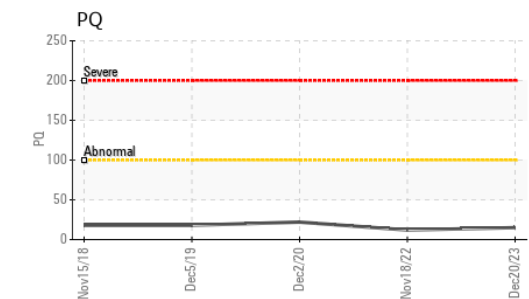
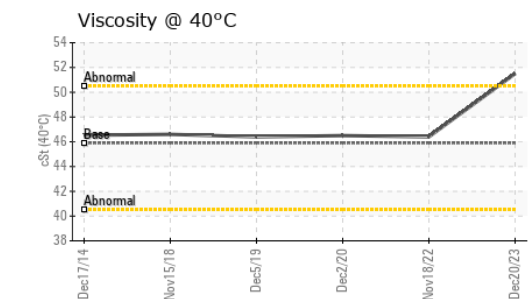
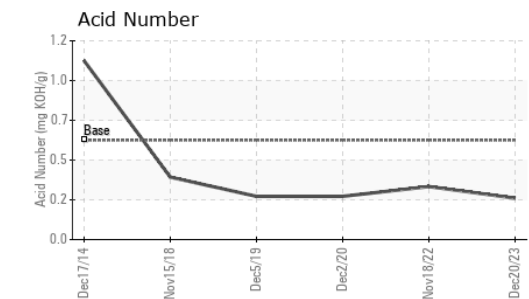
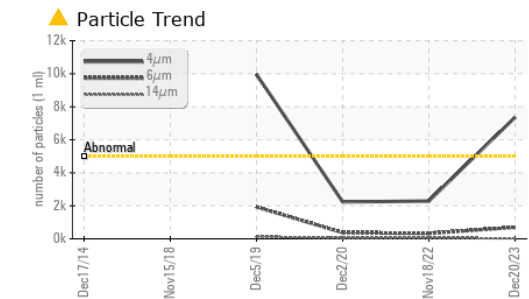
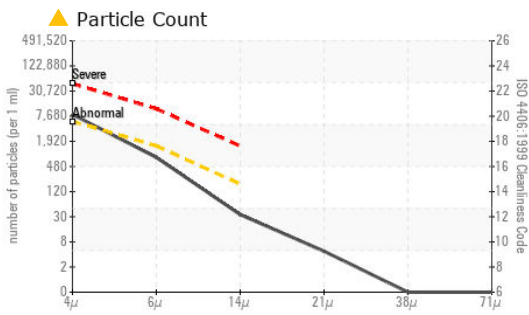
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0191255	JR0149510	JR0064509
Sample Date		Client Info		20 Dec 2023	18 Nov 2022	02 Dec 2020
Machine Age	hrs	Client Info		177	556	546
Oil Age	hrs	Client Info		0	556	4
Filter Age	hrs	Client Info		24	542	4
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Filter Changed		Client Info		N/A	Not Changd	N/A
Sample Status				ATTENTION	NORMAL	NORMAL

PQ		ASTM D8184		15	12	22
Iron	ppm	ASTM D5185m	>20	7	6	7
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	1	2	2
Lead	ppm	ASTM D5185m	>10	<1	1	3
Copper	ppm	ASTM D5185m	>75	18	17	20
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>20	1	2	1
Potassium	ppm	ASTM D5185m	>20	<1	1	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 7357	2290	2235
Particles >6µm		ASTM D7647	>1300	696	327	373
Particles >14µm		ASTM D7647	>160	30	43	46
Particles >21µm		ASTM D7647	>40	4	14	11
Particles >38µm		ASTM D7647	>10	0	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 20/17/12	18/16/13	18/16/13
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	>0.1	NEG	NEG	NEG

Sodium	ppm	ASTM D5185m		1	2	2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	4	5	3
Calcium	ppm	ASTM D5185m	48	149	140	146
Phosphorus	ppm	ASTM D5185m	337	269	286	290
Zinc	ppm	ASTM D5185m	426	328	333	342
Sulfur	ppm	ASTM D5185m	2280	2570	3431	2407
Acid Number (AN)	mg KOH/g	ASTM D8045	.6	0.25	0.32	0.261
Visc @ 40°C	cSt	ASTM D445	45.9	51.5	46.4	46.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0191255 **Received** : 17 Jan 2024
Lab Number : 06062523 **Diagnosed** : 18 Jan 2024
Unique Number : 10833905 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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)