MAR II

WEAR CHECK Inland Marine Oil Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
HALEY DENNIS ROSS
Component
Port Reduction Gear
Fluid
CHEVRON GEAR COMPOUND EP 220 (40 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

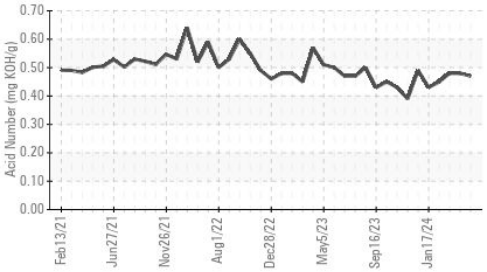
There is no indication of any contamination in the oil.

FLUID CONDITION

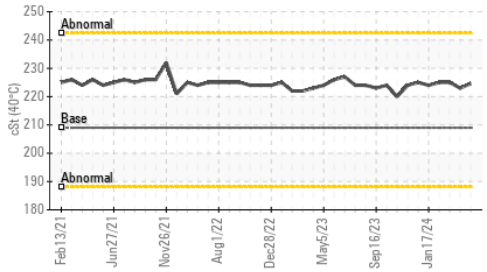
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0067258	MW0049137	MW0061833
Sample Date		Client Info		23 Apr 2024	30 Mar 2024	03 Mar 2024
Machine Age	hrs	Client Info		0	37511	37013
Oil Age	hrs	Client Info		500	37511	37013
Filter Age	hrs	Client Info		500	0	113
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	None	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>150	35	37	35
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	<1	<1
Titanium	ppm	ASTM D5185m		1	1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	6	7	7
Lead	ppm	ASTM D5185m	>100	<1	<1	3
Copper	ppm	ASTM D5185m	>50	4	5	4
Tin	ppm	ASTM D5185m	>10	<1	<1	2
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>50	8	9	8
Potassium	ppm	ASTM D5185m	>20	1	2	2
Water		WC Method	>0.1	NEG	NEG	NEG
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		0	<1	3
Boron	ppm	ASTM D5185m		4	4	5
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		4	3	0
Calcium	ppm	ASTM D5185m		78	82	73
Phosphorus	ppm	ASTM D5185m		224	242	244
Zinc	ppm	ASTM D5185m		7	5	8
Sulfur	ppm	ASTM D5185m		6776	7166	7868
Acid Number (AN)	mg KOH/g	ASTM D8045		0.47	0.48	0.48
Visc @ 40°C	cSt	ASTM D445	209	224.6	223	225

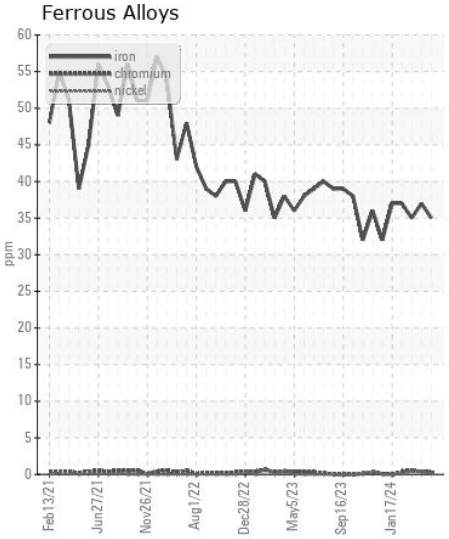
Acid Number



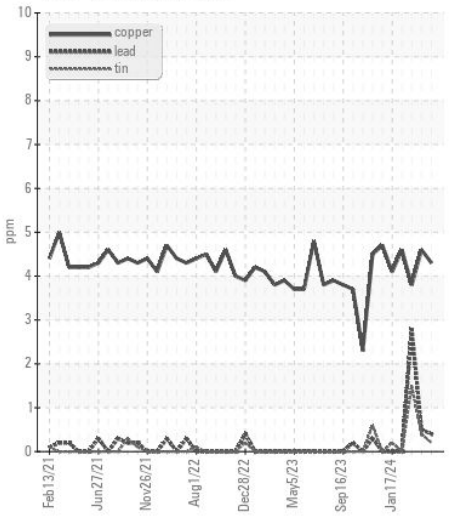
Viscosity @ 40°C



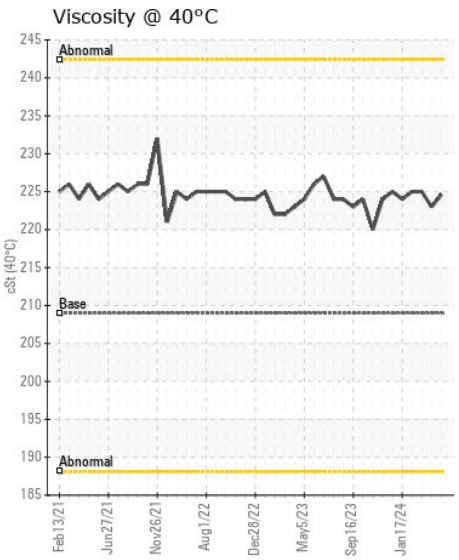
Ferrous Alloys



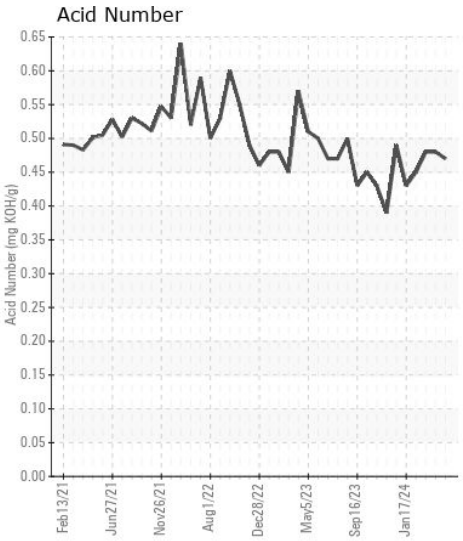
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0067258
Lab Number : 06189755
Unique Number : 11046507
Test Package : MAR 2

Received : 23 May 2024
Tested : 31 May 2024
Diagnosed : 31 May 2024 - Wes Davis

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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