MAR II

WEAR CHECK Inland Marine Oil Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PATSY J
Component
Port Main Engine
Fluid
CHEVRON DELO 400 SAE 40 (150 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

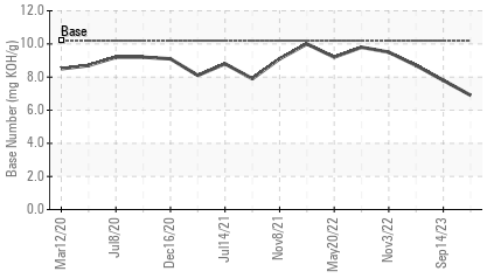
There is no indication of any contamination in the oil.

FLUID CONDITION

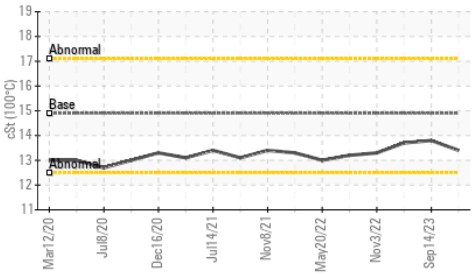
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0060484	MW0060475	MW0060496
Sample Date		Client Info		26 Jan 2024	14 Sep 2023	06 Jul 2023
Machine Age	hrs	Client Info		30609	27743	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>75	38	19	11
Chromium	ppm	ASTM D5185m	>8	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m	>3	16	13	10
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	2	3	2
Lead	ppm	ASTM D5185m	>18	2	<1	<1
Copper	ppm	ASTM D5185m	>80	3	1	<1
Tin	ppm	ASTM D5185m	>14	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	4	5	5
Potassium	ppm	ASTM D5185m	>20	3	2	3
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		1.7	1.1	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.6	8.2	7.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	19.2	19.2
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	>75	0	3	5
Boron	ppm	ASTM D5185m		62	95	179
Barium	ppm	ASTM D5185m		13	0	0
Molybdenum	ppm	ASTM D5185m		33	43	60
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		644	699	753
Calcium	ppm	ASTM D5185m		1445	1559	1663
Phosphorus	ppm	ASTM D5185m	1160	702	715	787
Zinc	ppm	ASTM D5185m	1270	749	847	878
Sulfur	ppm	ASTM D5185m		3444	3769	4534
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	12.6	13.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	6.9	7.8	8.7
Visc @ 100°C	cSt	ASTM D445	14.9	13.4	13.8	13.7

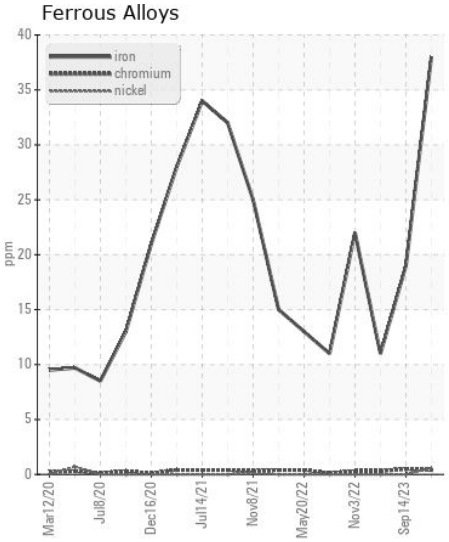
Base Number



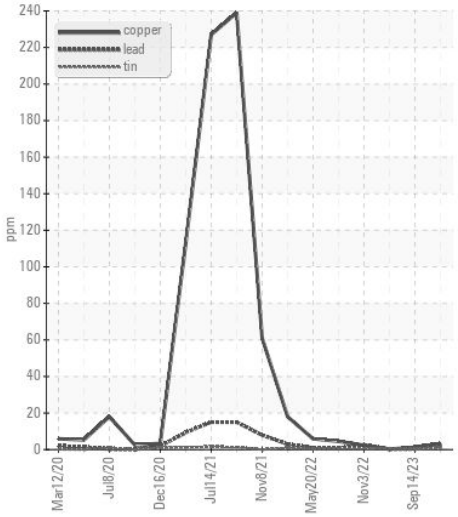
Viscosity @ 100°C



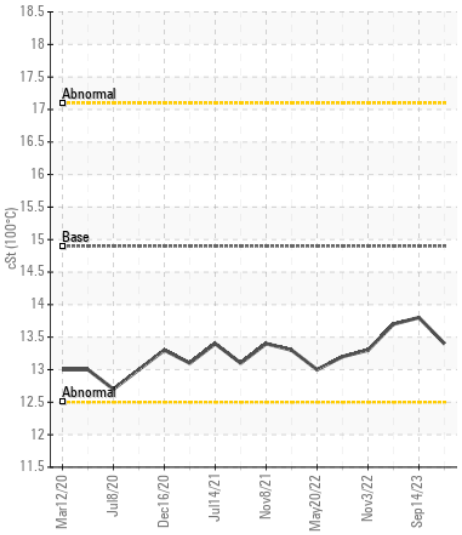
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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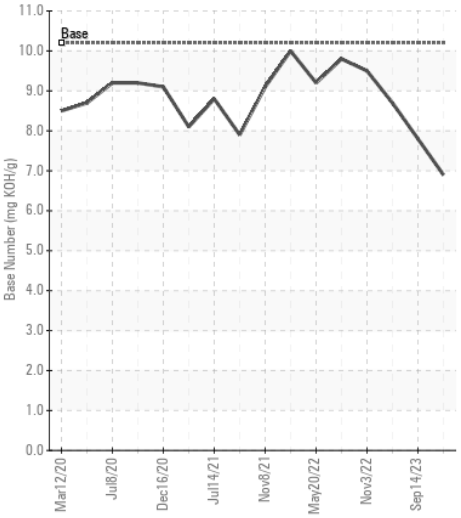

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0060484
Lab Number : 06085753
Unique Number : 10873198
Test Package : MAR 2

Received : 12 Feb 2024
Tested : 12 Feb 2024
Diagnosed : 13 Feb 2024 - Don Baldridge

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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