



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
JERRY A TINKEY
Machine Id
[**JERRY A TINKEY**] 001 516506-1
Component
Port Main Engine
Fluid
CHEVRON DELO 710 LE (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0063302	MW0063298	MW0046601
Sample Date		Client Info		01 Apr 2024	01 Dec 2023	01 Oct 2023
Machine Age	hrs	Client Info		72101	71777	71674
Oil Age	hrs	Client Info		72101	71777	71674
Filter Age	hrs	Client Info		300	519	416
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	10	8	7
Chromium	ppm	ASTM D5185m	>8	2	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m	>3	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	2	<1	2
Lead	ppm	ASTM D5185m	>18	3	1	2
Copper	ppm	ASTM D5185m	>80	10	9	9
Tin	ppm	ASTM D5185m	>14	3	2	2
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

There is no indication of any contamination in the oil.

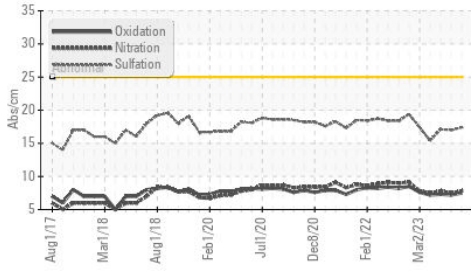
Silicon	ppm	ASTM D5185m	>20	5	4	4
Potassium	ppm	ASTM D5185m	>20	3	0	3
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	1.5	1.4	1.5
Nitration	Abs/cm	*ASTM D7624	>20	7.8	7.5	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.4	17.0	17.1
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	>0.1	NEG	NEG	NEG

FLUID CONDITION

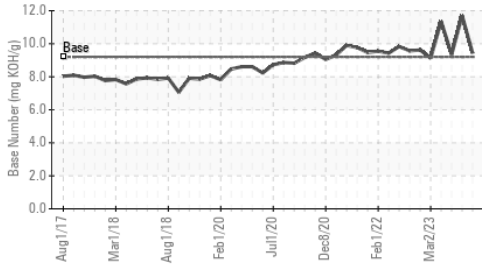
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>75	3	3	2
Boron	ppm	ASTM D5185m		56	50	43
Barium	ppm	ASTM D5185m		1	0	9
Molybdenum	ppm	ASTM D5185m		47	46	54
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		38	31	22
Calcium	ppm	ASTM D5185m		3327	3292	3251
Phosphorus	ppm	ASTM D5185m		59	32	48
Zinc	ppm	ASTM D5185m	10	52	37	21
Sulfur	ppm	ASTM D5185m		2715	2198	2955
Oxidation	Abs/.1mm	*ASTM D7414	>25	7.5	7.2	7.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.2	9.43	11.70	9.35
Visc @ 100°C	cSt	ASTM D445	15.5	15.1	15.1	15.0

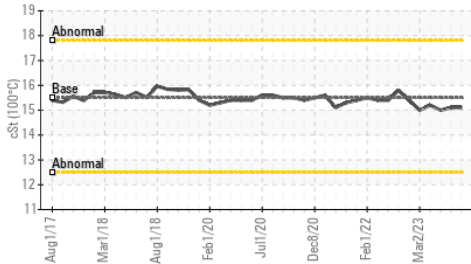
FT-IR (Direct Trend)



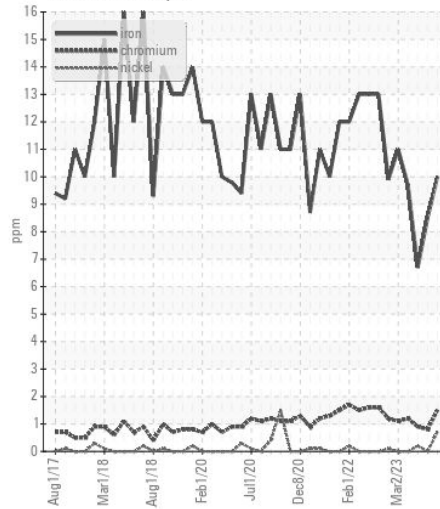
Base Number



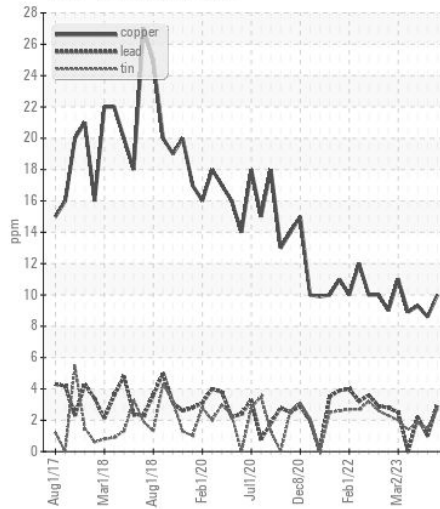
Viscosity @ 100°C



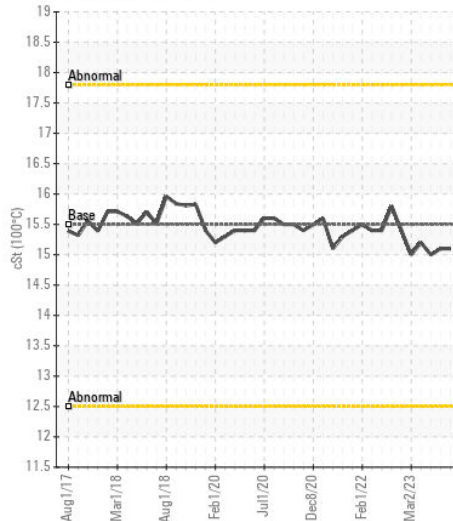
Ferrous Alloys



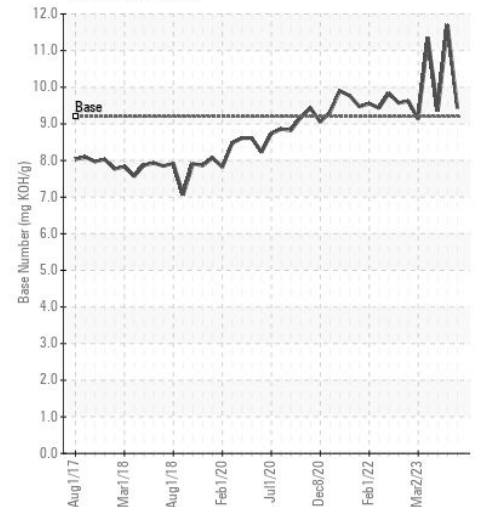
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0063302
Lab Number : 06153825
Unique Number : 10989248
Test Package : MAR 2
Received : 18 Apr 2024
Tested : 23 Apr 2024
Diagnosed : 23 Apr 2024 - Jonathan Hester

INGRAM BARGE
 900 S 3RD ST
 PADUCAH, KY
 US 42003

Contact: ZACH BURKHART
 zachary.burkhart@ingrambarga.com

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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