



Area
EVEY T
Machine Id
[EVEY T] 007 558474-7
Component
Port Genset
Fluid
CHEVRON DELO 400 XLE 15W40 (5 GAL)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0070774	MW0070768	MW0068554
Sample Date		Client Info		09 Jun 2024	17 May 2024	01 May 2024
Machine Age	hrs	Client Info		10432	10087	9834
Oil Age	hrs	Client Info		345	217	48
Filter Age	hrs	Client Info		345	217	48
Oil Changed		Client Info		Not Changd	N/A	Changed
Filter Changed		Client Info		Not Changd	Changed	Changed
Sample Status				MARGINAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	3	7	2
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>5	0	<1	0
Aluminum	ppm	ASTM D5185m	>12	2	3	4
Lead	ppm	ASTM D5185m	>17	0	<1	<1
Copper	ppm	ASTM D5185m	>70	0	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

Fuel content negligible. There is no indication of any contamination in the oil.

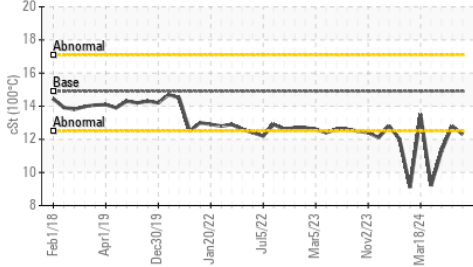
Silicon	ppm	ASTM D5185m	>25	4	7	5
Potassium	ppm	ASTM D5185m	>20	2	2	2
Fuel	%	ASTM D3524	>4.0	1.8	1.8	▲ 7.7
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.8	6.0	5.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	21.3	22.4
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

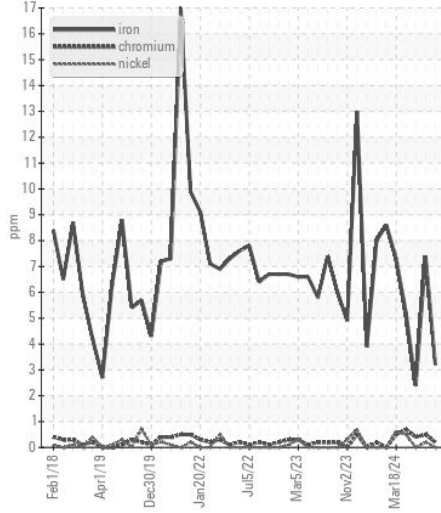
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

Sodium	ppm	ASTM D5185m		<1	<1	0
Boron	ppm	ASTM D5185m		355	454	424
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		99	103	127
Manganese	ppm	ASTM D5185m		2	2	<1
Magnesium	ppm	ASTM D5185m		474	491	595
Calcium	ppm	ASTM D5185m		1417	1440	1420
Phosphorus	ppm	ASTM D5185m	760	834	890	716
Zinc	ppm	ASTM D5185m	830	1119	1120	765
Sulfur	ppm	ASTM D5185m	2770	2919	3371	2550
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	15.6	15.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	7.8	8.0	8.8
Visc @ 100°C	cSt	ASTM D445	14.9	▲ 12.3	12.8	▲ 11.3

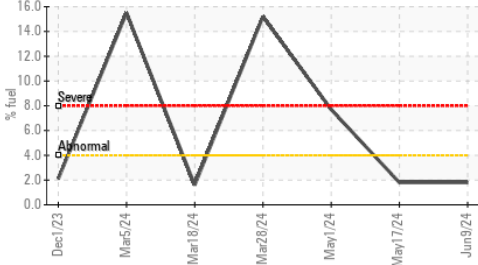
▲ Viscosity @ 100°C



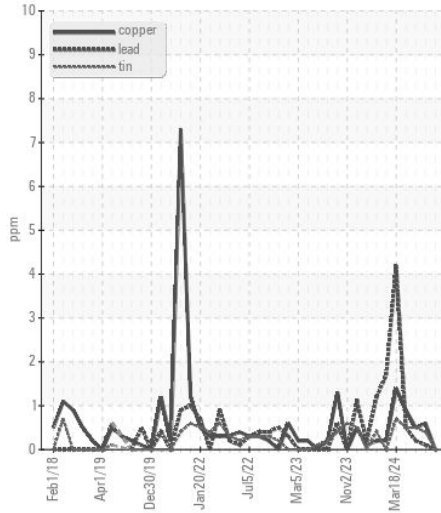
Ferrous Alloys



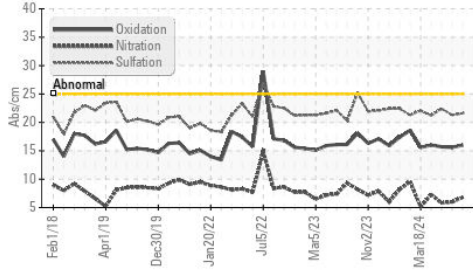
Fuel Dilution



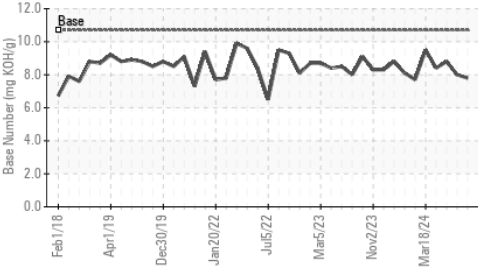
Non-ferrous Metals



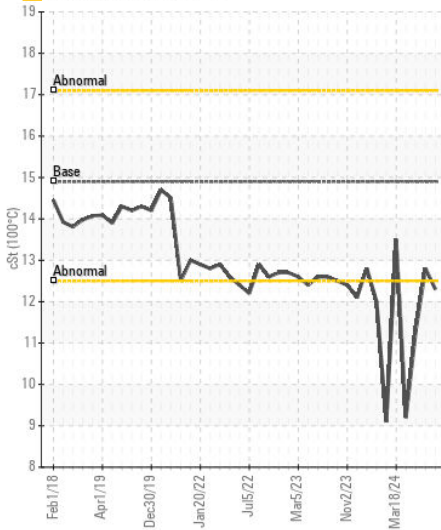
FT-IR (Direct Trend)



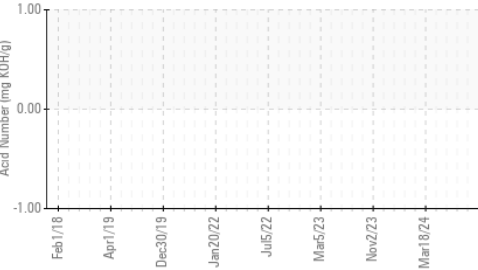
Base Number



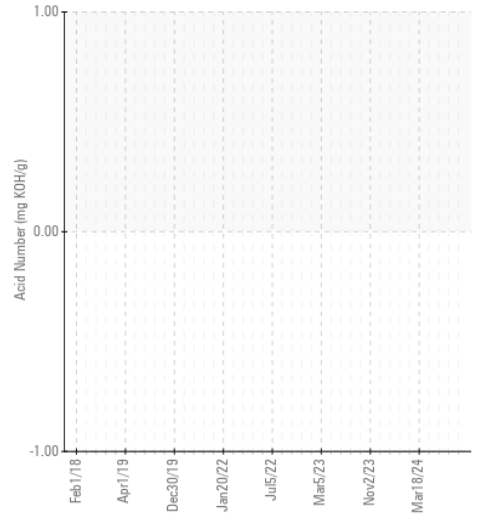
▲ Viscosity @ 100°C



Acid Number



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0070774
Lab Number : 06221002
Unique Number : 11099199
Test Package : MAR 2 (Additional Tests: FuelDilution, PercentFuel, TAN Man)

Received : 26 Jun 2024
Tested : 01 Jul 2024
Diagnosed : 01 Jul 2024 - Jonathan Hester

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

Contact: ANTHONY VAN CURA
 anthony.vancura@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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