



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
MAIN
 Component
Main Engine
 Fluid
CHEVRON DELO 400 LE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0785635	WC0725392	WC0691725
Sample Date		Client Info		28 Feb 2023	06 Sep 2022	13 Aug 2022
Machine Age	hrs	Client Info		25072	222648	21757
Oil Age	hrs	Client Info		500	222648	21757
Filter Age	hrs	Client Info		500	222648	21757
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	5	7	7
Chromium	ppm	ASTM D5185m	>8	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>3	<1	2	2
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	4	3	3
Lead	ppm	ASTM D5185m	>18	<1	5	5
Copper	ppm	ASTM D5185m	>80	<1	<1	<1
Tin	ppm	ASTM D5185m	>14	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

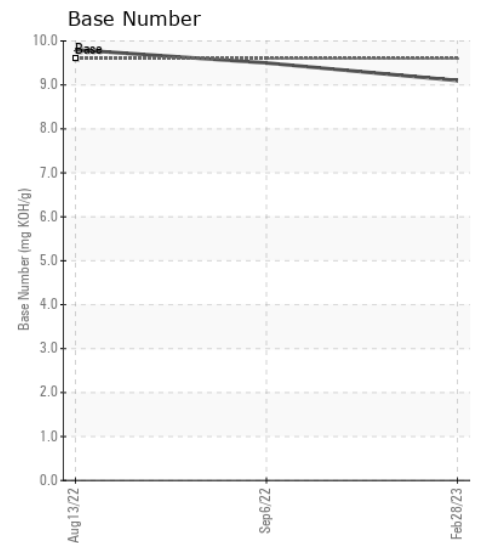
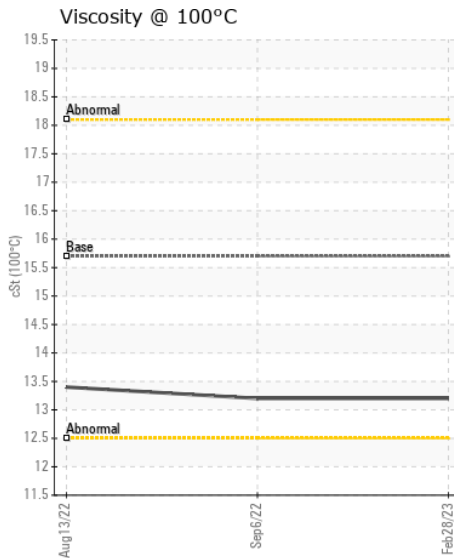
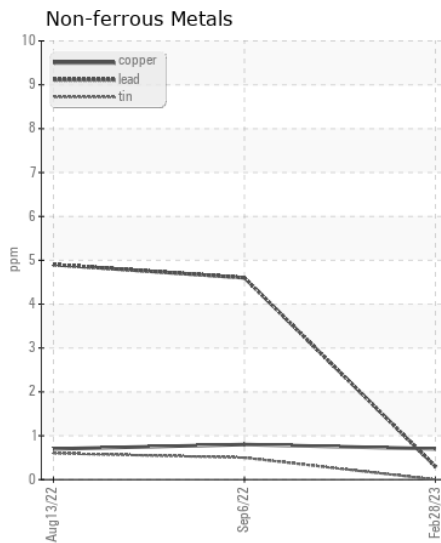
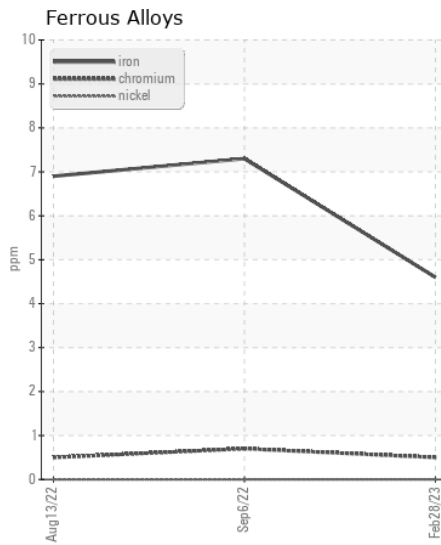
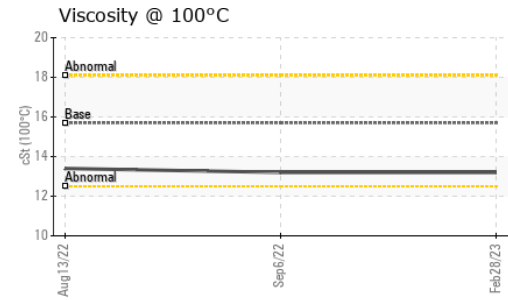
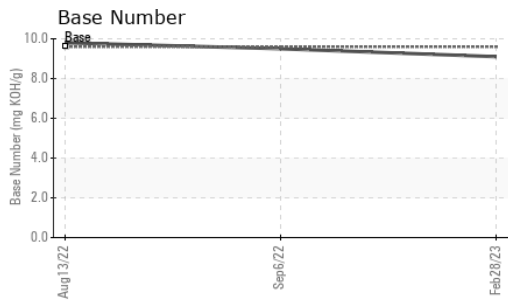
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	5	6	5
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
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		0.4	0.6	0.5
Nitration	Abs/cm	*ASTM D7624	>20	8.3	9.6	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.9	26.0	25.1
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	<1	3	2
Boron	ppm	ASTM D5185m		332	250	265
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		121	117	107
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		604	679	676
Calcium	ppm	ASTM D5185m		1603	1632	1619
Phosphorus	ppm	ASTM D5185m	1200	734	733	743
Zinc	ppm	ASTM D5185m	1300	885	882	863
Sulfur	ppm	ASTM D5185m	3200	2520	3126	2766
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	20.9	18.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.6	9.1	9.5	9.8
Visc @ 100°C	cSt	ASTM D445	15.7	13.2	13.2	13.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0785635 **Received** : 30 Mar 2023
Lab Number : 05806719 **Diagnosed** : 02 Apr 2023
Unique Number : 10404248 **Diagnostician** : Don Baldrige
Test Package : FLEET

ASSOCIATED TERMINALS - FORKLIFT

ARABI, LA
 US 70032
 Contact: JOSHUA HENDERSON
 jhenderson@associatedterminals.com
 T: (504)416-2802
 F: x:

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)