



# WEAR CHECK

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**INTERNATIONAL 40386**  
Component  
**Diesel Engine**  
Fluid  
**CHEVRON DELO 400 SDE SAE 15W40 (24 QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0913859</b>	WCM1299819	WCM1299828
Sample Date		Client Info		<b>04 Apr 2024</b>	12 Oct 2021	24 Jun 2021
Machine Age	mls	Client Info		<b>232683</b>	0	0
Oil Age	mls	Client Info		<b>10269</b>	0	0
Filter Age	mls	Client Info		<b>10269</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	N/A
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	<b>14</b>	49	28
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>20	<b>6</b>	▲ 60	▲ 50
Lead	ppm	ASTM D5185m	>40	<b>0</b>	1	0
Copper	ppm	ASTM D5185m	>330	<b>2</b>	52	14
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

There is no indication of any contamination in the oil.

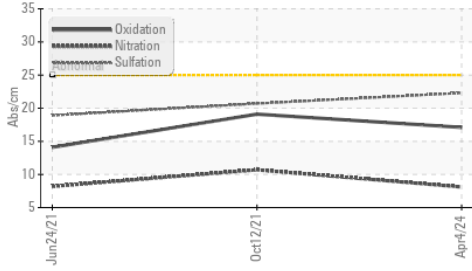
Silicon	ppm	ASTM D5185m	>25	<b>6</b>	▲ 30	12
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	▲ 163	▲ 94
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	0.9
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>6	<b>0.5</b>	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.1</b>	10.7	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.3</b>	20.7	18.9
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

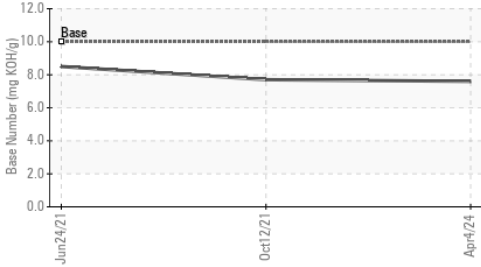
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>4</b>	5	3
Boron	ppm	ASTM D5185m		<b>323</b>	26	14
Barium	ppm	ASTM D5185m		<b>0</b>	5	1
Molybdenum	ppm	ASTM D5185m		<b>104</b>	51	66
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	8	2
Magnesium	ppm	ASTM D5185m		<b>489</b>	984	971
Calcium	ppm	ASTM D5185m		<b>1383</b>	1460	1320
Phosphorus	ppm	ASTM D5185m	760	<b>915</b>	777	997
Zinc	ppm	ASTM D5185m	800	<b>1062</b>	875	1081
Sulfur	ppm	ASTM D5185m	3000	<b>3356</b>	3787	4694
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.1</b>	19.1	14.1
Base Number (BN)	mg KOH/g	ASTM D2896	10	<b>7.6</b>	7.7	8.5
Visc @ 100°C	cSt	ASTM D445	14.6	<b>12.7</b>	13.6	● 11.9

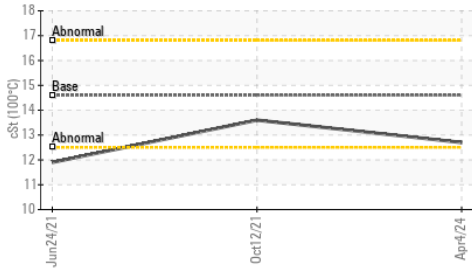
FT-IR (Direct Trend)



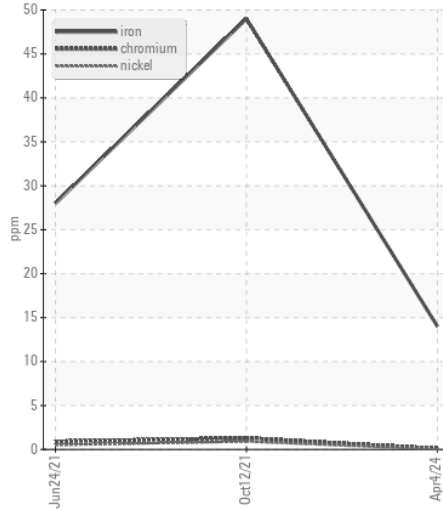
Base Number



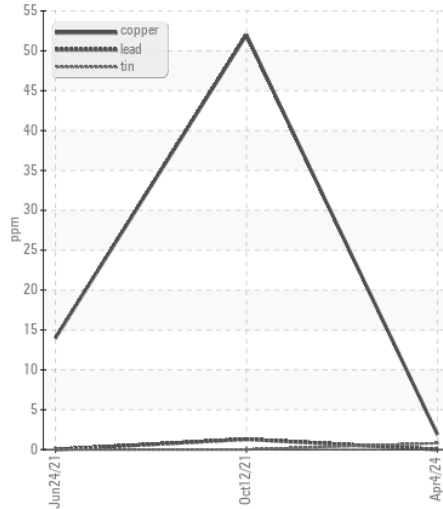
Viscosity @ 100°C



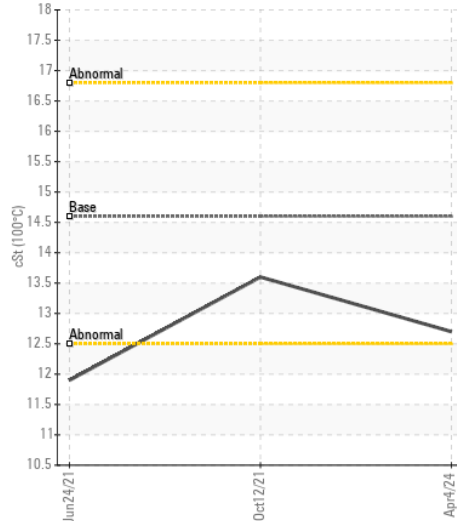
Ferrous Alloys



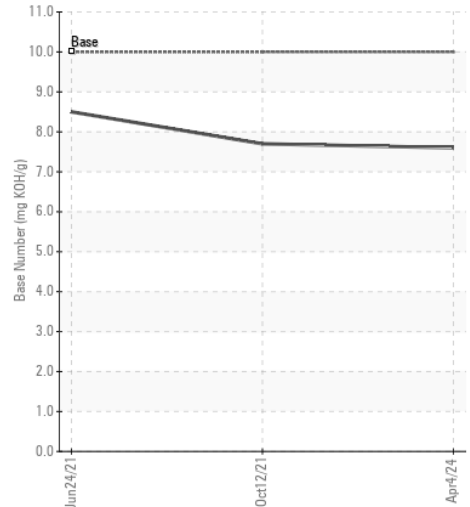
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : WC0913859  
 Lab Number : 06153712  
 Unique Number : 10983790  
 Test Package : FLEET

Received : 18 Apr 2024  
 Tested : 19 Apr 2024  
 Diagnosed : 19 Apr 2024 - Wes Davis

SALEM NATIONALEASE CORPORATION  
 198 PARK PLAZA DRIVE  
 WINSTON SALEM, NC  
 US 27105

Contact: Audrey Hopkins  
 Audrey.Hopkins@salemcorp.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)

T: (336)767-9642

F: x: