



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
INTERNATIONAL 40385
Component
Diesel Engine
Fluid
CHEVRON DELO 400 SDE SAE 15W40 (19 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0913918	WCM1306059	---
Sample Date		Client Info		15 May 2024	21 Jun 2021	---
Machine Age	mls	Client Info		185312	0	---
Oil Age	mls	Client Info		0	0	---
Filter Age	mls	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	17	80	---
Chromium	ppm	ASTM D5185m	>20	<1	2	---
Nickel	ppm	ASTM D5185m	>2	0	2	---
Titanium	ppm	ASTM D5185m	>2	0	<1	---
Silver	ppm	ASTM D5185m	>2	<1	<1	---
Aluminum	ppm	ASTM D5185m	>20	8	▲ 88	---
Lead	ppm	ASTM D5185m	>40	<1	2	---
Copper	ppm	ASTM D5185m	>330	3	261	---
Tin	ppm	ASTM D5185m	>15	<1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

There is no indication of any contamination in the oil.

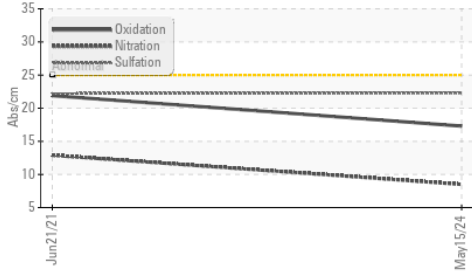
Silicon	ppm	ASTM D5185m	>25	7	▲ 31	---
Potassium	ppm	ASTM D5185m	>20	9	▲ 228	---
Fuel		WC Method	>3.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>6	0.6	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	8.5	12.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	22.2	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

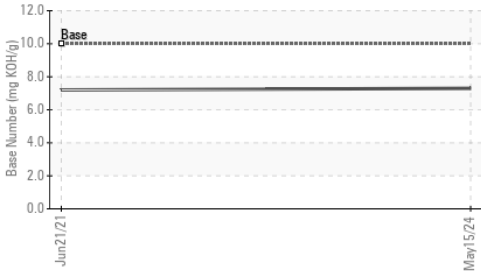
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		1	6	---
Boron	ppm	ASTM D5185m		238	19	---
Barium	ppm	ASTM D5185m		0	5	---
Molybdenum	ppm	ASTM D5185m		109	53	---
Manganese	ppm	ASTM D5185m		<1	8	---
Magnesium	ppm	ASTM D5185m		538	1026	---
Calcium	ppm	ASTM D5185m		1669	1506	---
Phosphorus	ppm	ASTM D5185m	760	1069	765	---
Zinc	ppm	ASTM D5185m	800	1330	882	---
Sulfur	ppm	ASTM D5185m	3000	3911	3405	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	21.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	10	7.3	7.2	---
Visc @ 100°C	cSt	ASTM D445	14.6	12.7	13.7	---

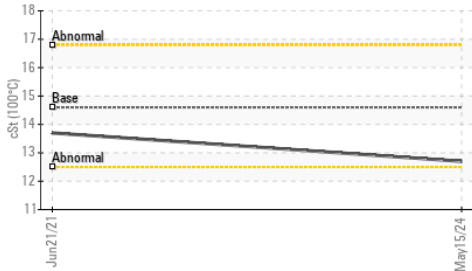
FT-IR (Direct Trend)



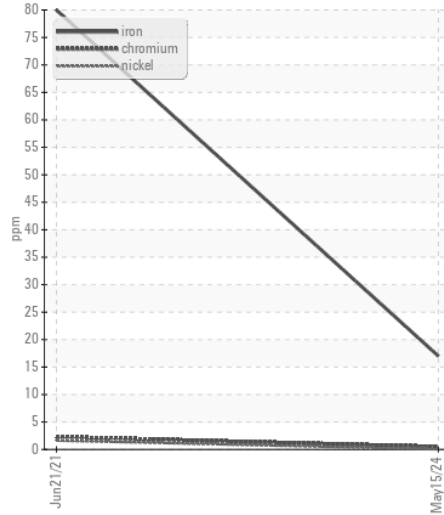
Base Number



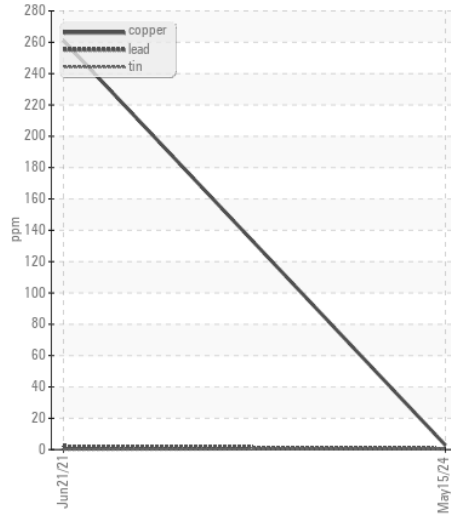
Viscosity @ 100°C



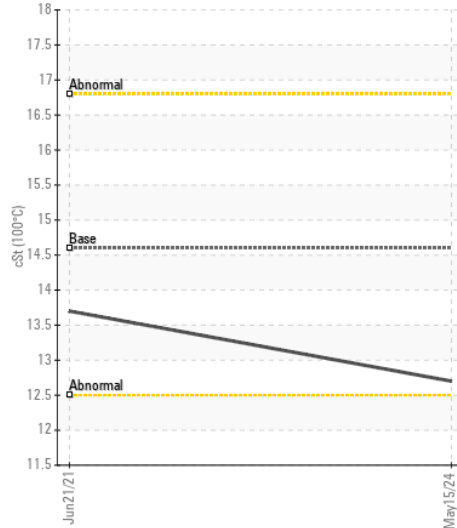
Ferrous Alloys



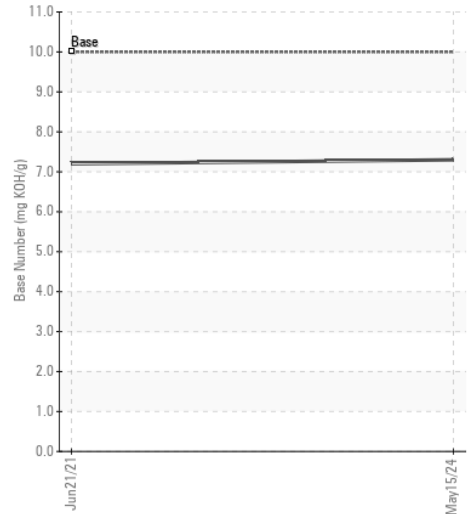
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0913918
Lab Number : 06193362
Unique Number : 11050114
Test Package : FLEET

Received : 28 May 2024
Tested : 30 May 2024
Diagnosed : 30 May 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)

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F: x: