OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id
3162
Component
Diesel Engine
Fluid
CHEVRON SUPREME MOTOR OIL 10W40 (--- QTS)

RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

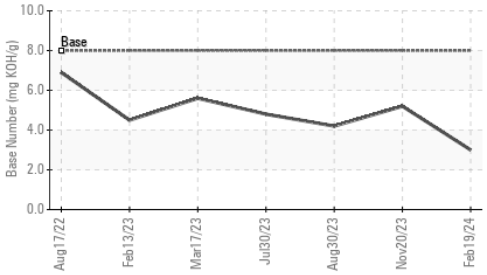
There is no indication of any contamination in the oil.

FLUID CONDITION

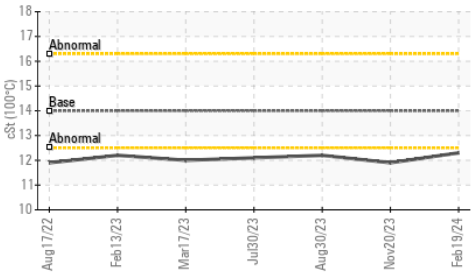
The BN level is low.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0906937	WC0863323	WC0816607
Sample Date		Client Info		19 Feb 2024	20 Nov 2023	30 Aug 2023
Machine Age	mls	Client Info		159962	144254	116099
Oil Age	mls	Client Info		116069	116069	50637
Filter Age	mls	Client Info		43893	28185	50637
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	43	15	41
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	14	6	13
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	8	4	12
Tin	ppm	ASTM D5185m	>15	<1	<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
Silicon	ppm	ASTM D5185m	>25	17	9	12
Potassium	ppm	ASTM D5185m	>20	18	9	30
Fuel	%	ASTM D3524	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	1.2	0.5	0.8
Nitration	Abs/cm	*ASTM D7624	>20	13.0	10.3	11.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	31.0	23.4	26.7
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	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		5	2	4
Boron	ppm	ASTM D5185m		22	17	21
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		14	4	37
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		787	805	958
Calcium	ppm	ASTM D5185m		1434	1485	1744
Phosphorus	ppm	ASTM D5185m	990	744	774	847
Zinc	ppm	ASTM D5185m	1100	809	886	988
Sulfur	ppm	ASTM D5185m		2680	2886	3995
Oxidation	Abs/.1mm	*ASTM D7414	>25	27.9	18.0	22.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.0	▲ 3.0	5.2	4.2
Visc @ 100°C	cSt	ASTM D445	14.0	12.3	11.9	12.2

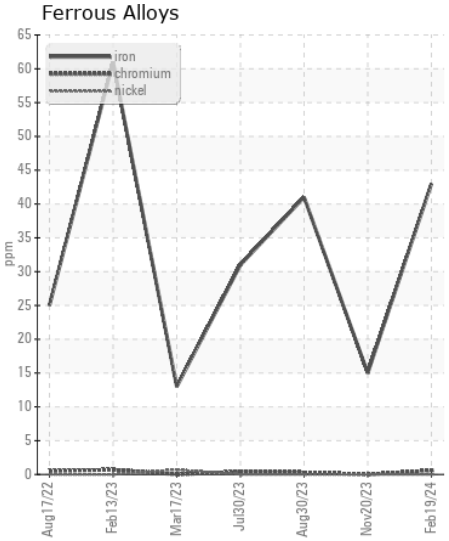
Base Number



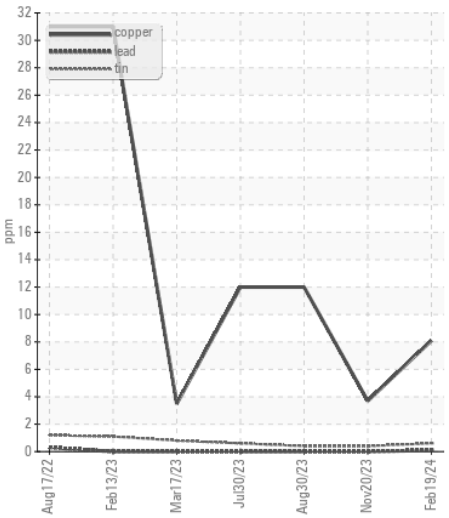
Viscosity @ 100°C



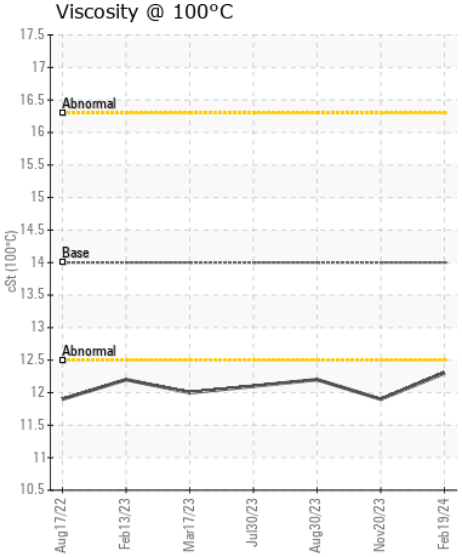
Ferrous Alloys



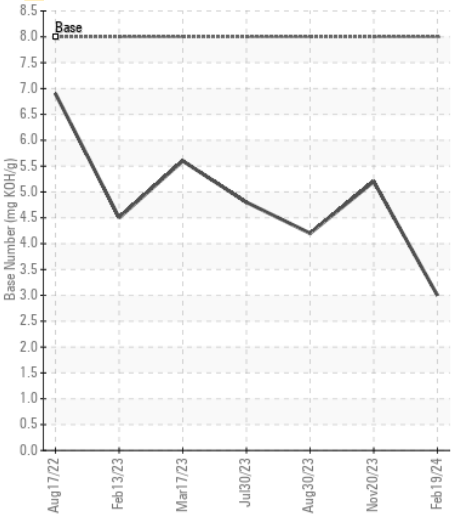
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0906937
Lab Number : 06099566
Unique Number : 10897796
Test Package : FLEET (Additional Tests: FuelDilution)

Received : 26 Feb 2024
Tested : 27 Feb 2024
Diagnosed : 27 Feb 2024 - Sean Felton

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)

LTI/MILKY WAY - SUNNYSIDE
333 MIDVALE RD
SUNNYSIDE, WA
US 98944
Contact: JERRY CRISP
jcrisp@ltii.lynden.com
T: (509)839-5844
F: (509)839-6556