



WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
72226
Component
Diesel Engine
Fluid
CHEVRON DELO 400 MULTIGRADE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0680986	WC0681097	WC0680967
Sample Date		Client Info		27 Jan 2024	20 Sep 2023	29 Jul 2023
Machine Age	hrs	Client Info		3221	701	5872
Oil Age	hrs	Client Info		625	701	1934
Filter Age	hrs	Client Info		625	701	1934
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	26	88	▲ 161
Chromium	ppm	ASTM D5185m	>20	1	4	9
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		17	21	18
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	5	55	▲ 208
Lead	ppm	ASTM D5185m	>40	3	10	15
Copper	ppm	ASTM D5185m	>330	1	3	2
Tin	ppm	ASTM D5185m	>15	<1	1	3
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

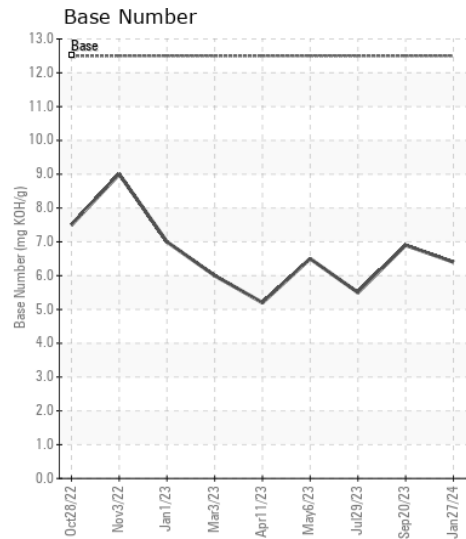
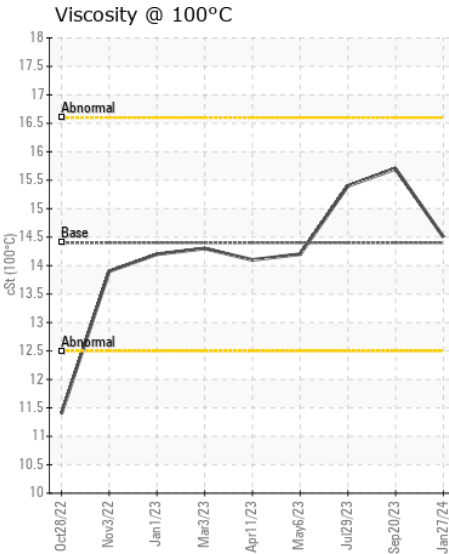
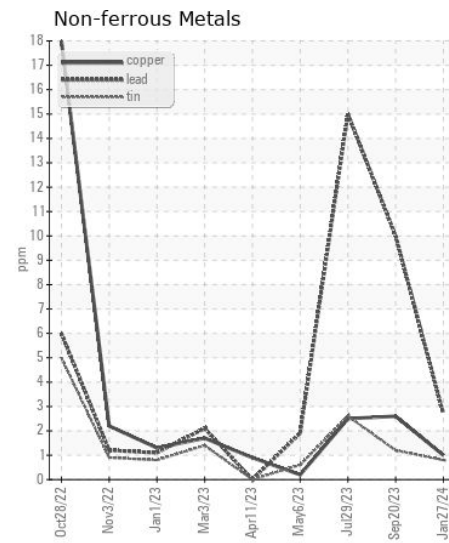
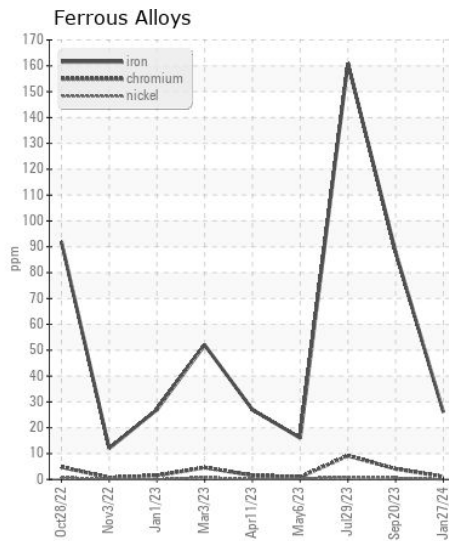
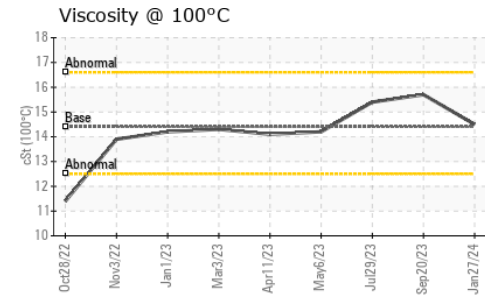
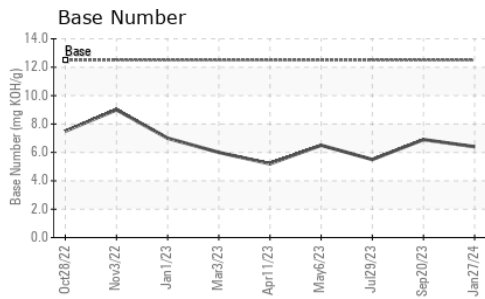
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	11	15
Potassium	ppm	ASTM D5185m	>20	4	103	▲ 349
Fuel		WC Method	>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	0.6	2.2	2.8
Nitration	Abs/cm	*ASTM D7624	>20	10.4	11.3	13.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8	26.2	32.3
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

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		4	6	9
Boron	ppm	ASTM D5185m	151	45	50	30
Barium	ppm	ASTM D5185m	0.4	0	3	0
Molybdenum	ppm	ASTM D5185m	250	30	39	32
Manganese	ppm	ASTM D5185m		<1	1	2
Magnesium	ppm	ASTM D5185m	0	772	908	824
Calcium	ppm	ASTM D5185m	2046	1523	1904	1683
Phosphorus	ppm	ASTM D5185m	1043	731	861	780
Zinc	ppm	ASTM D5185m	943	844	1047	888
Sulfur	ppm	ASTM D5185m	5012	2967	3853	3548
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.0	19.1	25.4
Base Number (BN)	mg KOH/g	ASTM D2896	12.5	6.4	6.9	5.5
Visc @ 100°C	cSt	ASTM D445	14.4	14.5	15.7	15.4



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0680986 **Received** : 14 Feb 2024
Lab Number : 06089348 **Tested** : 15 Feb 2024
Unique Number : 10876793 **Diagnosed** : 16 Feb 2024 - Don Baldrige
Test Package : FLEET

NANA LYNDEN LOGISTICS
 P.O. BOX 570
 KOTZEBUE, AK
 US 99752
 Contact: Mark Tatlow
 nanalynden@lynden.com
 T: (907)754-5551
 F: (800)418-0974

Certificate L2367
 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)