



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
72225
 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		WC0921157	WC0681120	WC0681169
Sample Date		Client Info		08 Jun 2024	01 Feb 2024	19 Jun 2023
Machine Age	hrs	Client Info		7862	5626	2231
Oil Age	hrs	Client Info		519	0	544
Filter Age	hrs	Client Info		519	0	544
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	40	85	40
Chromium	ppm	ASTM D5185m	>20	2	5	2
Nickel	ppm	ASTM D5185m	>4	0	1	<1
Titanium	ppm	ASTM D5185m		16	19	18
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	7	18	17
Lead	ppm	ASTM D5185m	>40	8	21	3
Copper	ppm	ASTM D5185m	>330	2	3	2
Tin	ppm	ASTM D5185m	>15	0	2	1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

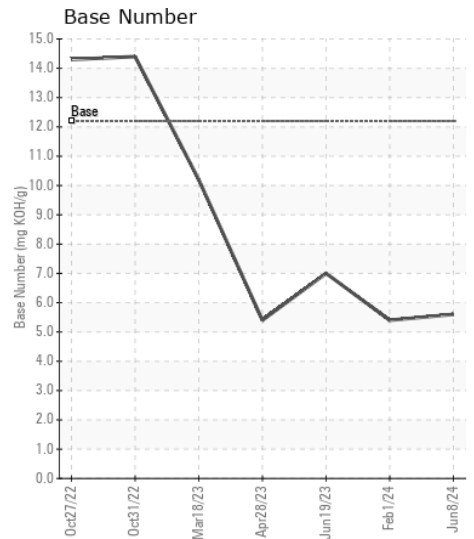
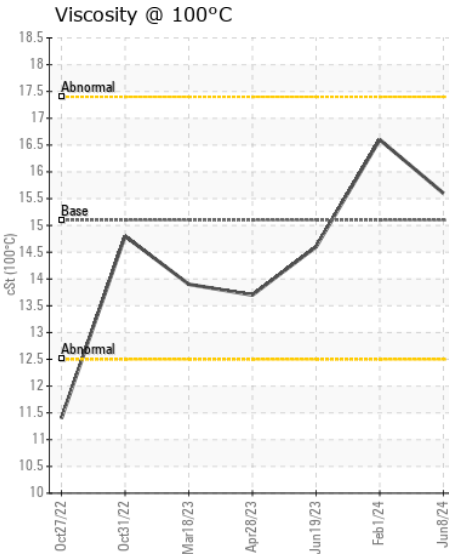
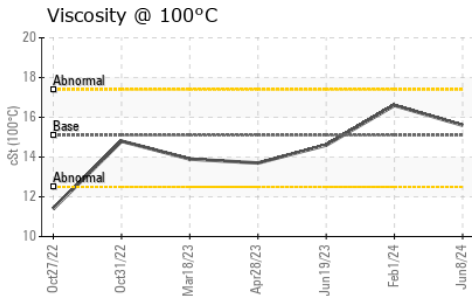
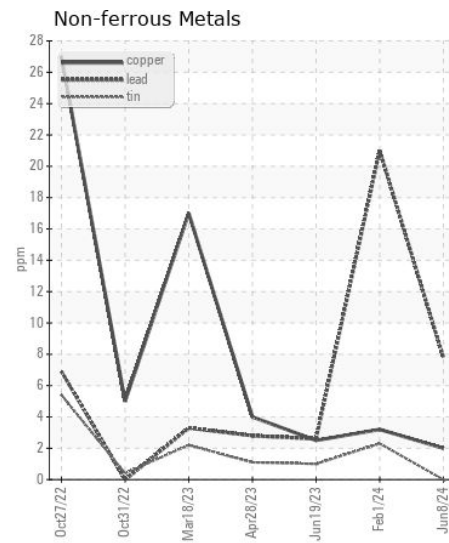
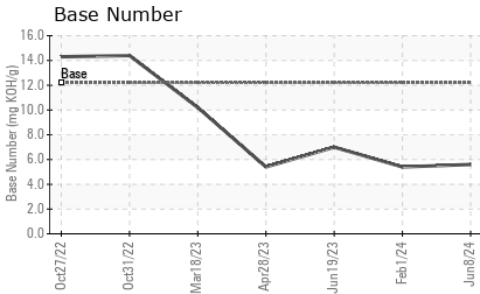
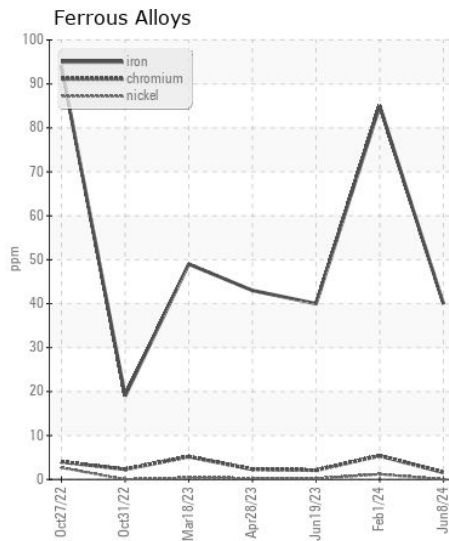
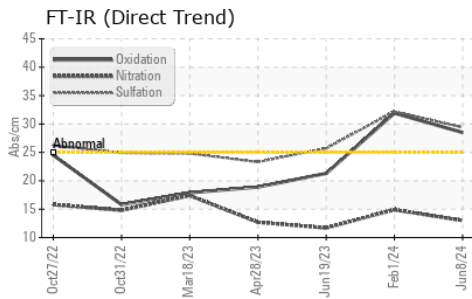
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	7	12	7
Potassium	ppm	ASTM D5185m	>20	7	29	49
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	1.2	1.8	1.3
Nitration	Abs/cm	*ASTM D7624	>20	13.0	14.9	11.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.4	32.2	25.7
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

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		6	7	95
Boron	ppm	ASTM D5185m		50	43	33
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		34	32	41
Manganese	ppm	ASTM D5185m		<1	2	<1
Magnesium	ppm	ASTM D5185m		805	747	701
Calcium	ppm	ASTM D5185m		1809	1543	1553
Phosphorus	ppm	ASTM D5185m	1360	753	700	719
Zinc	ppm	ASTM D5185m	1480	914	832	835
Sulfur	ppm	ASTM D5185m		3452	3239	3172
Oxidation	Abs/.1mm	*ASTM D7414	>25	28.5	31.9	21.3
Base Number (BN)	mg KOH/g	ASTM D2896	12.2	5.6	5.4	7.0
Visc @ 100°C	cSt	ASTM D445	15.1	15.6	16.6	14.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0921157
Lab Number : 06219167
Unique Number : 11097364
Test Package : FLEET
Received : 24 Jun 2024
Tested : 25 Jun 2024
Diagnosed : 26 Jun 2024 - Don Baldrige

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)