



WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
36185
Component
Diesel Engine
Fluid
CHEVRON 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0948670	WC0882909	WC0842563
Sample Date		Client Info		14 Jun 2024	02 Jan 2024	31 Jul 2023
Machine Age	mls	Client Info		82455	53939	28994
Oil Age	mls	Client Info		28516	24945	28994
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	27	28	55
Chromium	ppm	ASTM D5185m	>20	2	2	4
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	6	15	56
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	44	284	165
Tin	ppm	ASTM D5185m	>15	0	1	4
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

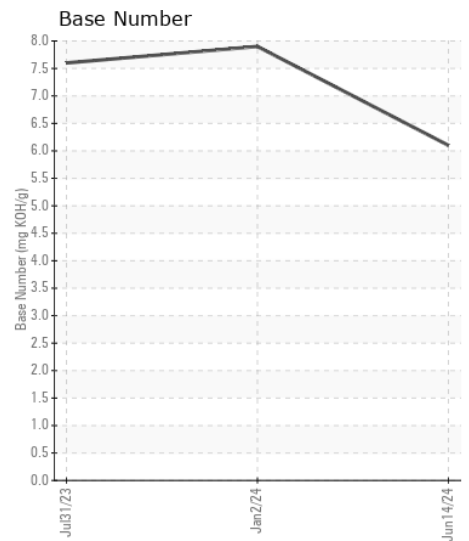
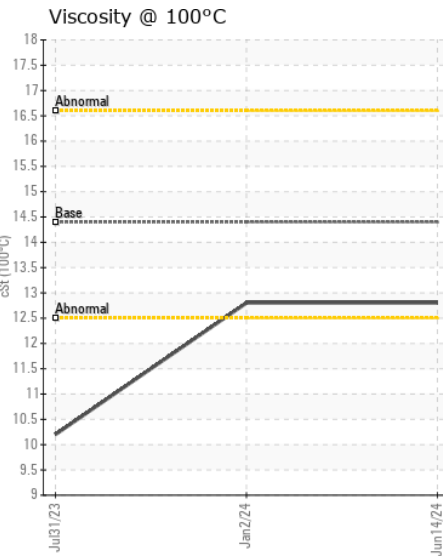
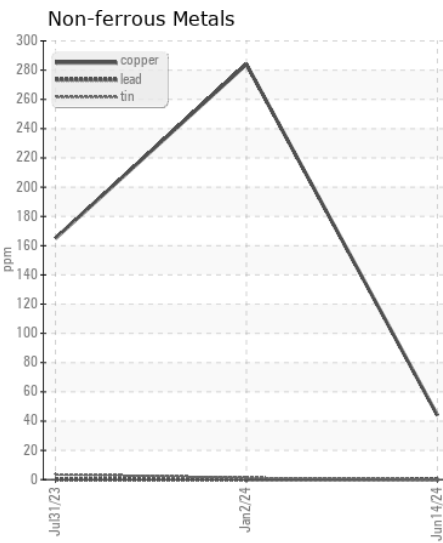
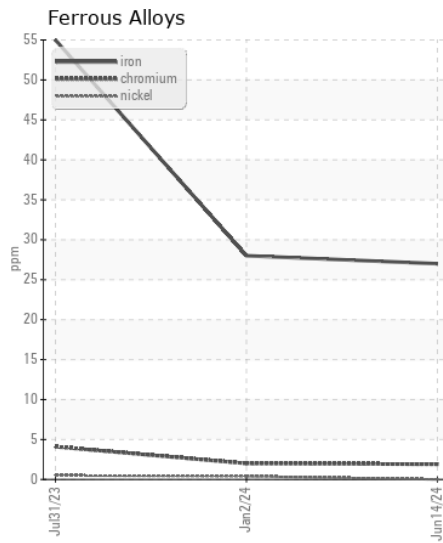
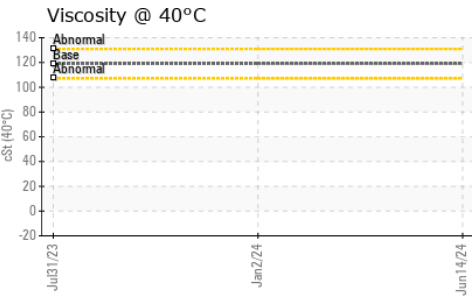
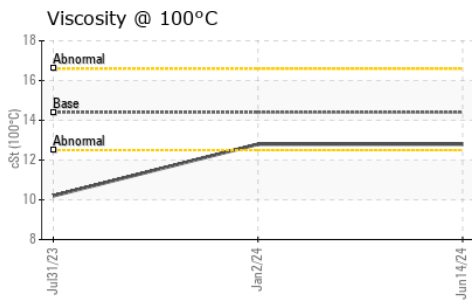
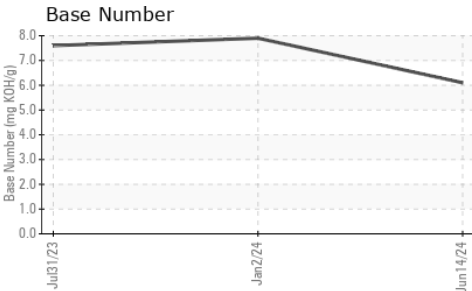
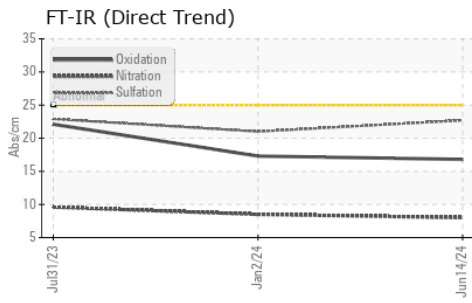
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	4	9
Potassium	ppm	ASTM D5185m	>20	10	36	153
Fuel		WC Method	>5	<1.0	<1.0	0.2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.5	0.5	0.6
Nitration	Abs/cm	*ASTM D7624	>20	8.0	8.5	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	21.0	22.9
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	>50	1	0	6
Boron	ppm	ASTM D5185m		140	6	29
Barium	ppm	ASTM D5185m		0	10	0
Molybdenum	ppm	ASTM D5185m		79	58	47
Manganese	ppm	ASTM D5185m		1	1	6
Magnesium	ppm	ASTM D5185m		559	807	603
Calcium	ppm	ASTM D5185m		1522	1112	1732
Phosphorus	ppm	ASTM D5185m		1043	989	777
Zinc	ppm	ASTM D5185m		1388	1038	964
Sulfur	ppm	ASTM D5185m		3268	2828	2372
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	17.3	22.1
Base Number (BN)	mg KOH/g	ASTM D2896		6.1	7.9	7.6
Visc @ 100°C	cSt	ASTM D445	14.4	12.8	12.8	10.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0948670 **Received** : 28 Jun 2024
Lab Number : 06223281 **Tested** : 01 Jul 2024
Unique Number : 11101478 **Diagnosed** : 01 Jul 2024 - Don Baldrige
Test Package : FLEET (Additional Tests: KV40)

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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)