



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
CHEVROLET KODIAC V77
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- QTS)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

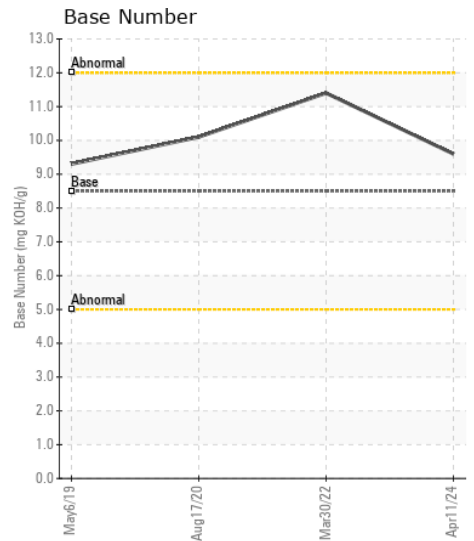
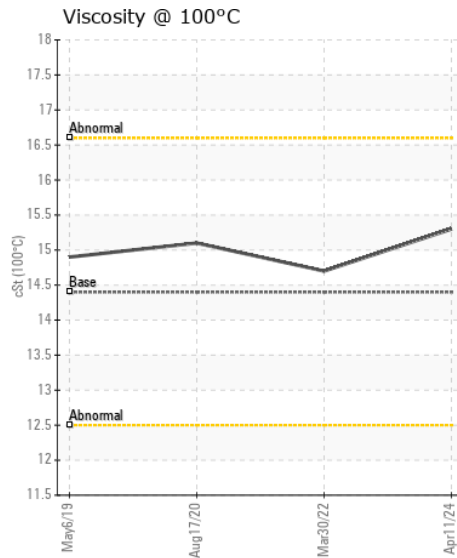
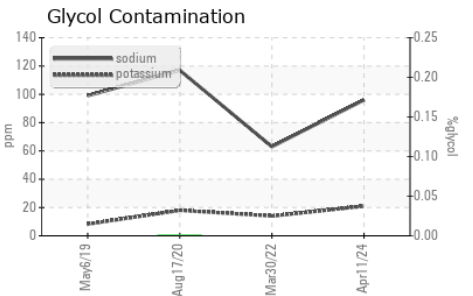
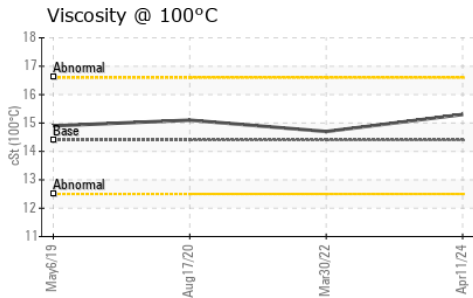
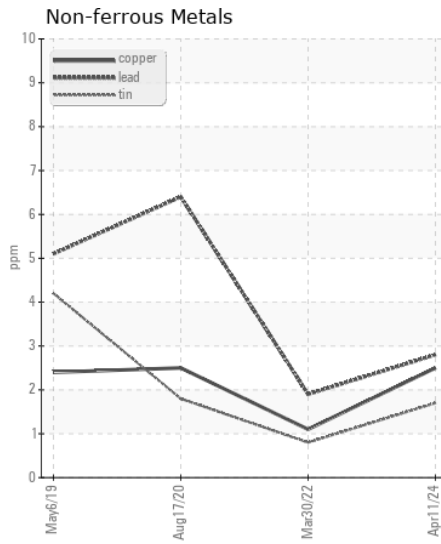
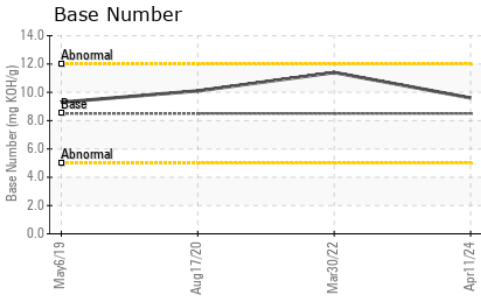
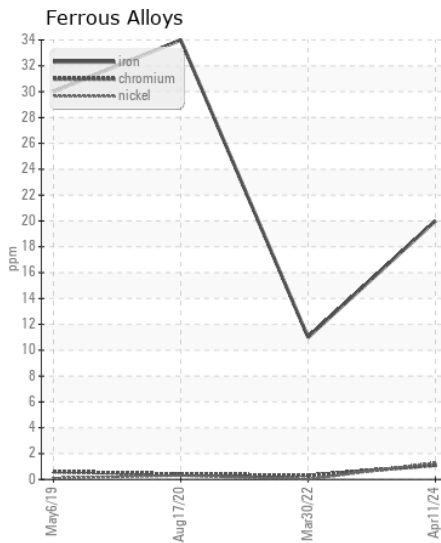
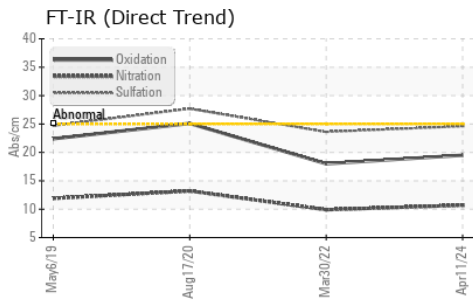
CONTAMINATION

Sodium and/or potassium levels are high. Test for glycol is negative.

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0206203	JR0115460	JRMC468828
Sample Date		Client Info		11 Apr 2024	30 Mar 2022	17 Aug 2020
Machine Age	hrs	Client Info		7953	7636	7383
Oil Age	hrs	Client Info		570	253	1092
Filter Age	hrs	Client Info		311	0	261
Oil Changed		Client Info		Not Chngd	Not Chngd	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	ATTENTION
Iron	ppm	ASTM D5185m	>100	20	11	34
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	5	2	4
Lead	ppm	ASTM D5185m	>40	3	2	6
Copper	ppm	ASTM D5185m	>330	2	1	2
Tin	ppm	ASTM D5185m	>15	2	<1	2
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	13	11	5
Potassium	ppm	ASTM D5185m	>20	21	14	18
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	NEG	0.0
Soot %	%	*ASTM D7844	>3	1.3	0.8	1.8
Nitration	Abs/cm	*ASTM D7624	>20	10.7	9.9	13.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.6	23.6	27.7
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	>158	96	63	117
Boron	ppm	ASTM D5185m	250	173	223	39
Barium	ppm	ASTM D5185m	10	<1	0	0
Molybdenum	ppm	ASTM D5185m	100	258	240	87
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	450	779	864	681
Calcium	ppm	ASTM D5185m	3000	1365	1512	1732
Phosphorus	ppm	ASTM D5185m	1150	937	924	923
Zinc	ppm	ASTM D5185m	1350	1041	1095	1032
Sulfur	ppm	ASTM D5185m	4250	3363	2802	3392
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.5	18.0	25.1
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.6	11.4	10.1
Visc @ 100°C	cSt	ASTM D445	14.4	15.3	14.7	15.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0206203 **Received** : 18 Apr 2024
Lab Number : 06152887 **Tested** : 22 Apr 2024
Unique Number : 10982965 **Diagnosed** : 22 Apr 2024 - Sean Felton
Test Package : CONST (Additional Tests: Glycol, TBN)

MATTHEWS CONSTRUCTION
 127 GRAYSON RD
 ROCK HILL, SC
 US 29732
 Contact: Tad Clinton
 tclinton@matthewsconstructionco.com
 T: (803)207-5607
 F:

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)