MOB I

IDEALEASE

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ATTENTION

Area
[2008703]
Machine Id
CHEV 142
Component
Diesel Engine
Fluid
{not provided} (20 LTR)

RECOMMENDATION

We advise that you check the fuel injection system. We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

We have assumed that the oil was taken hot, according to the sampling instructions. Aluminum and iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated. Piston wear is indicated.

CONTAMINATION

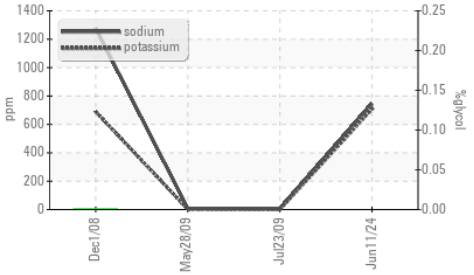
Test for glycol is positive. There is a high amount of fuel present in the oil. There is a high concentration of glycol present in the oil. There is a moderate concentration of water present in the oil. Free water present. Tests confirm the presence of fuel in the oil.

FLUID CONDITION

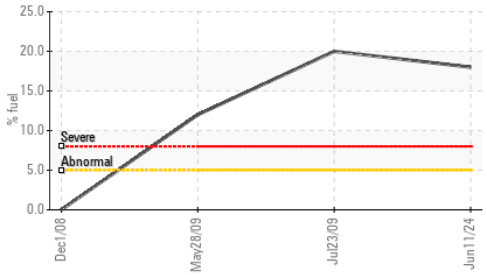
The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0033513	IL0003565	IL0003325
Sample Date		Client Info		11 Jun 2024	23 Jul 2009	28 May 2009
Machine Age	hrs	Client Info		0	3789	3391
Oil Age	hrs	Client Info		0	300	300
Filter Age	hrs	Client Info		0	300	300
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				SEVERE	SEVERE	SEVERE
PQ		ASTM D8184*		82	---	---
Iron	ppm	ASTM D5185(m)	>100	▲ 189	14	14
Chromium	ppm	ASTM D5185(m)	>20	3	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	1	0	0
Titanium	ppm	ASTM D5185(m)		<1	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	▲ 32	2	3
Lead	ppm	ASTM D5185(m)	>40	4	2	<1
Copper	ppm	ASTM D5185(m)	>330	20	2	2
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	17	3	3
Potassium	ppm	ASTM D5185(m)	>20	▲ 708	<1	2
Fuel	%	ASTM D7593*	>5	▲ 18	▲ 20.0	▲ 12.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		▲ >.70	NEG	NEG
Soot %	%	ASTM D7844*	>3	1.3	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	117.2	8.6	8.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	15.7	20.9	20.8
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		● 744	8	8
Boron	ppm	ASTM D5185(m)		21	2	3
Barium	ppm	ASTM D5185(m)		0	<1	<1
Molybdenum	ppm	ASTM D5185(m)		278	2	3
Manganese	ppm	ASTM D5185(m)		2	<1	<1
Magnesium	ppm	ASTM D5185(m)		612	5	6
Calcium	ppm	ASTM D5185(m)		764	1683	1790
Phosphorus	ppm	ASTM D5185(m)		824	740	775
Zinc	ppm	ASTM D5185(m)		1044	895	930
Sulfur	ppm	ASTM D5185(m)		2210	2259	2352
Oxidation	Abs/.1mm	ASTM D7414*	>25	127.6	16.2	16.1
Visc @ 100°C	cSt	ASTM D7279(m)		24.1	▲ 8.5	▲ 9.6

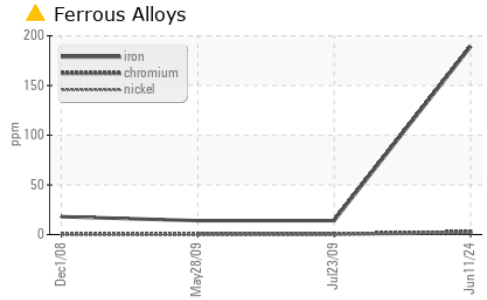
Glycol Contamination



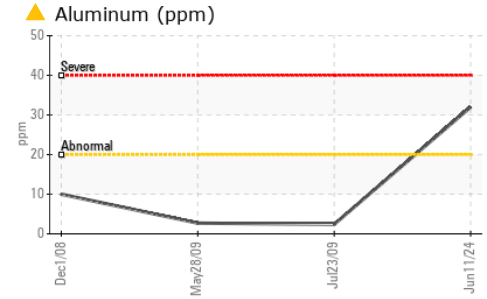
Fuel Dilution



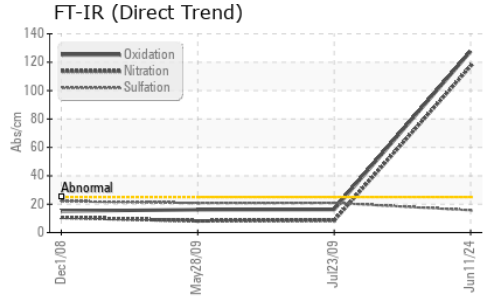
Ferrous Alloys



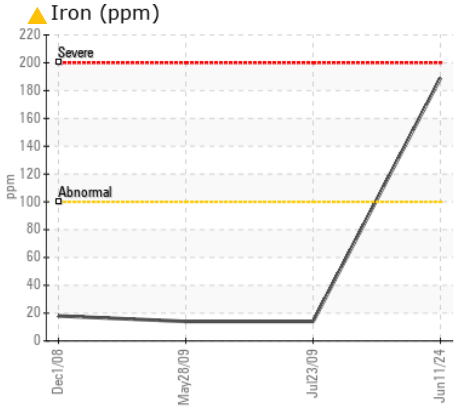
Aluminum (ppm)



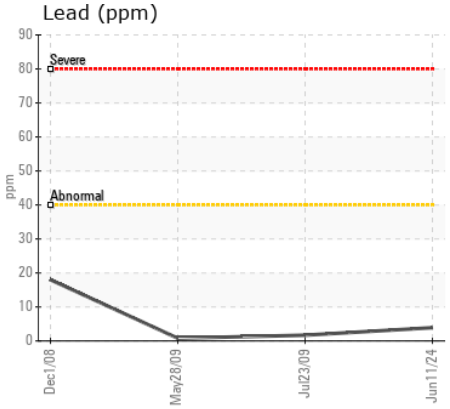
FT-IR (Direct Trend)



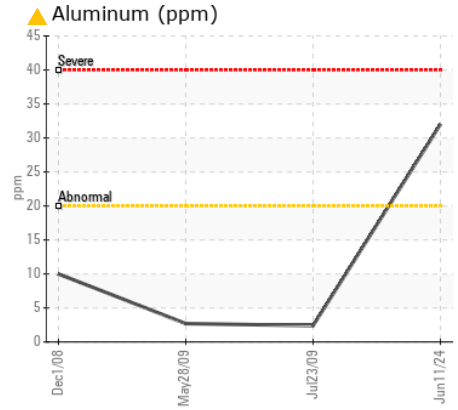
Iron (ppm)



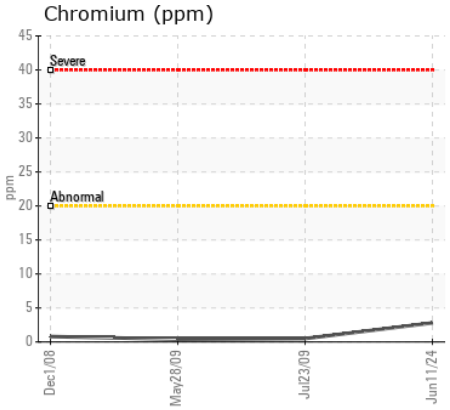
Lead (ppm)



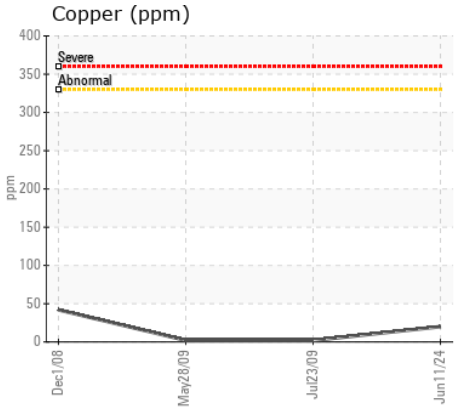
Aluminum (ppm)



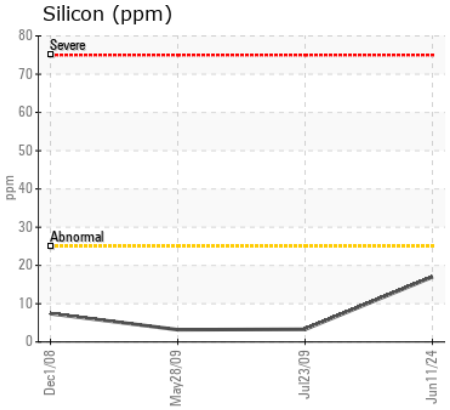
Chromium (ppm)



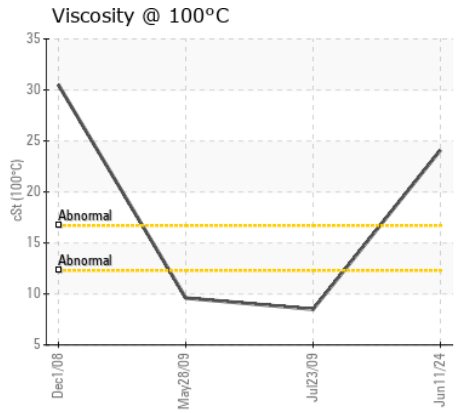
Copper (ppm)



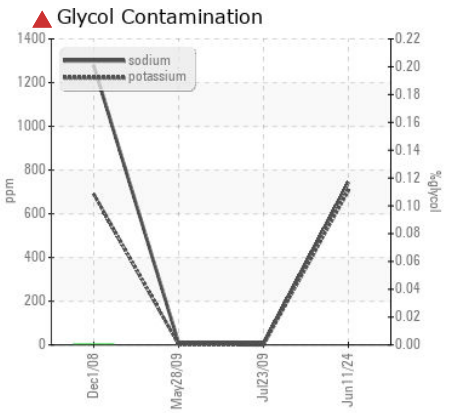
Silicon (ppm)



Viscosity @ 100°C



Glycol Contamination



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : IL0033513 **Received** : 12 Jun 2024
Lab Number : 02641350 **Tested** : 13 Jun 2024
Unique Number : 5798889 **Diagnosed** : 13 Jun 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, PercentFuel, PQ)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.

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