

OIL ANALYSIS REPORT

Sample Number

hrs

hrs

Sample Date

Machine Age

Oil Age

Sample Rating Trend



DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

🛡 Wear

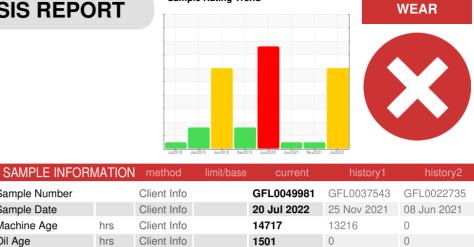
Chromium ppm levels are severe. Ring wear is indicated. A cylinder ring may be cracked or broken.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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



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Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	NORMAL	NORMAL
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>45	43	40	23
Chromium	ppm	ASTM D5185(m)	>4	🛑 10	7	4
Nickel	ppm	ASTM D5185(m)	>4	1	1	<1
Titanium	ppm	ASTM D5185(m)	>5	<1	0	<1
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	6	12	11
Lead	ppm	ASTM D5185(m)	>45	4	9	4
Copper	ppm	ASTM D5185(m)	>175	14	17	10
Tin	ppm	ASTM D5185(m)	>4	<1	<1	<1
Antimony	ppm	ASTM D5185(m)		0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	50	7	4	5
Barium	ppm	ASTM D5185(m)	5	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	50	59	59	56
Manganese	ppm	ASTM D5185(m)	0	1	1	<1
Magnesium	ppm	ASTM D5185(m)	560	617	723	601
Calcium	ppm	ASTM D5185(m)	1510	1837	1666	1629
Phosphorus	ppm	ASTM D5185(m)	780	755	846	702
Zinc	ppm	ASTM D5185(m)	870	1026	1042	960
Sulfur	ppm	ASTM D5185(m)	2040	2091	2042	2093
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	6	8	5
Sodium	ppm	ASTM D5185(m)		11	13	9
Potassium	ppm	ASTM D5185(m)	>20	<1	1	<1

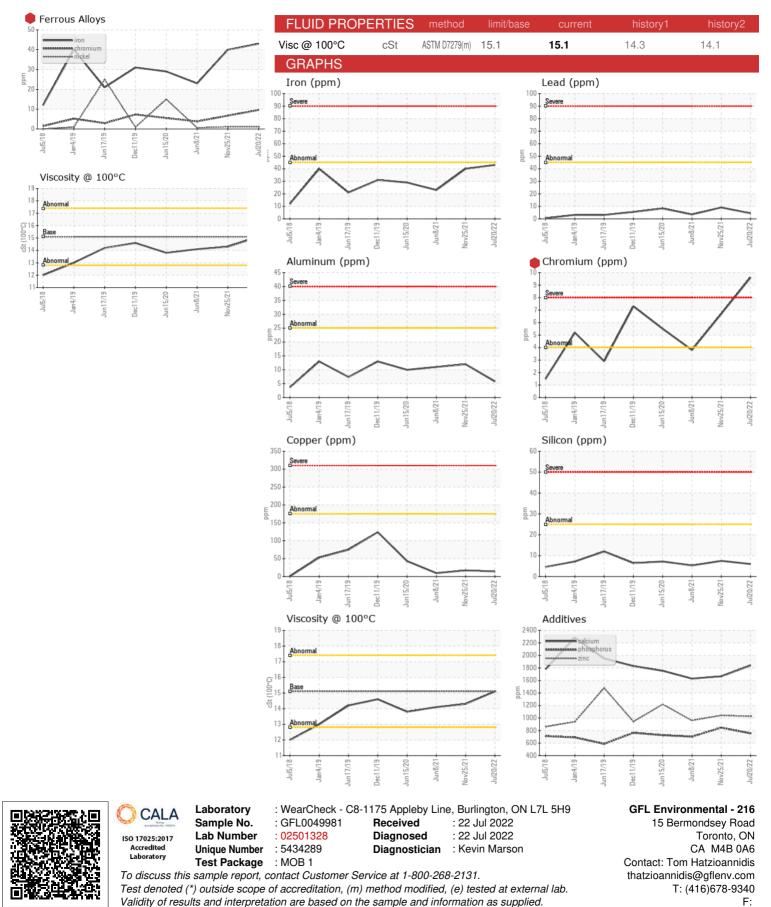
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	10.2	13.3	11.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.4	27.9	26.5

FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.9	23.2	20.7
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

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