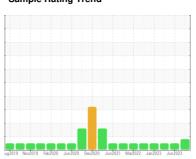


OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



NOVA 1716

Component

Natural Gas Engine

VALVOLINE PREMIUM BLUE 9200 15W40 (--- GAL)

DIAGNOSIS

Recommendation

We recommend an early resample to monitor this condition.

Wear

Copper ppm levels are noted. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.

Contamination

There is no indication of any contamination in the

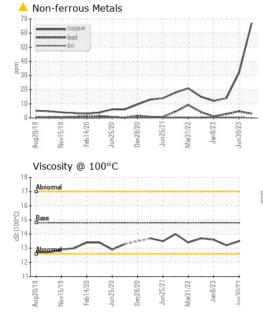
Fluid Condition

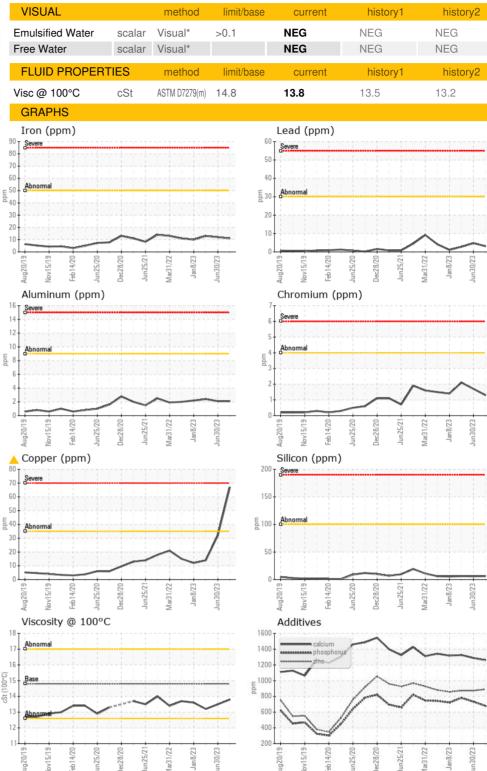
The condition of the oil is acceptable for the time in service.

(GAL)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0849963	WC0811611	WC0791290
Sample Date		Client Info		30 Sep 2023	30 Jun 2023	04 Apr 2023
Machine Age	kms	Client Info		0	0	305663
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Glycol		WC Method			0.0	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>50	11	12	13
Chromium	ppm	ASTM D5185(m)	>4	1	2	2
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	2
Silver	ppm	ASTM D5185(m)	>3	<1	<1	1
Aluminum	ppm	ASTM D5185(m)		2	2	2
Lead	ppm	ASTM D5185(m)	>30	3	5	3
Copper	ppm	ASTM D5185(m)	>35	<u>^</u> 67	32	14
Tin	ppm	ASTM D5185(m)	>4	<1	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
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)		6	6	7
Barium	ppm	ASTM D5185(m)		<1	0	0
Molybdenum	ppm	ASTM D5185(m)		54	53	52
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		841	846	825
Calcium	ppm	ASTM D5185(m)		1260	1287	1325
Phosphorus	ppm	ASTM D5185(m)		679	733	781
Zinc	ppm	ASTM D5185(m)		889	873	873
Sulfur	ppm	ASTM D5185(m)		1790	1804	1912
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>+100	6	6	6
Sodium	ppm	ASTM D5185(m)		3	9	4
Potassium	ppm	ASTM D5185(m)	>20	<1	12	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	12.6	13.4	14.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.0	24.3	26.2
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.5	23.3	22.1



OIL ANALYSIS REPORT







CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number** Test Package : MOB 1

: WC0849963 : 02586626 : 5655692

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Received : 04 Oct 2023 Diagnosed : 04 Oct 2023 : Kevin Marson Diagnostician

CITY OF HAMILTON 2200 UPPER JAMES,, MOUNTAIN TRANSIT STOREROOM MOUNT HOPE, ON

> CA LOR 1W0 Contact: Jeff Parr jeff.parr@hamilton.ca

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.

T: (905)546-2424 F: (905)679-4502