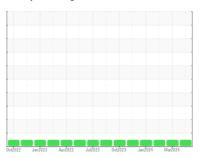


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 2112

Component Natural Gas Engine

VALVOLINE PREMIUM BLUE 9200 15W40 (

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

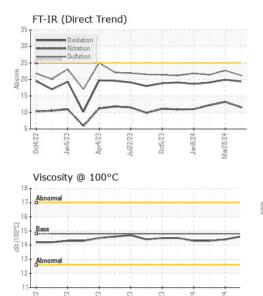
Fluid Condition

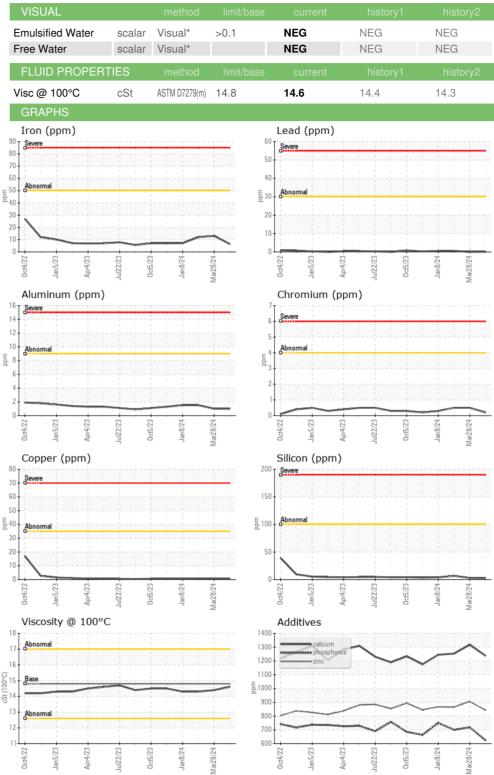
The condition of the oil is acceptable for the time in service.

(GAL)		0ct2022 J;	an 2023 Apr 2023 Jul	12023 Oct2023 Jan2024	Mar2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0877887	WC0917549	WC0878145
Sample Date		Client Info		04 Apr 2024	28 Mar 2024	18 Feb 2024
Machine Age	kms	Client Info		110877	101806	94268
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>50	6	13	12
Chromium	ppm	ASTM D5185(m)	>4	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>9	1	1	2
Lead	ppm	ASTM D5185(m)	>30	0	0	<1
Copper	ppm	ASTM D5185(m)	>35	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
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)		12	14	14
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		53	57	54
Manganese	ppm	ASTM D5185(m)		<1	0	0
Magnesium	ppm	ASTM D5185(m)		803	869	819
Calcium	ppm	ASTM D5185(m)		1237	1317	1253
Phosphorus	ppm	ASTM D5185(m)		624	718	700
Zinc	ppm	ASTM D5185(m)		842	906	865
Sulfur	ppm	ASTM D5185(m)		1968	1968	2091
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>+100	2	3	7
Sodium	ppm	ASTM D5185(m)		1	3	4
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	11.6	13.2	12.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.2	22.7	21.4
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.4	19.9	19.1



OIL ANALYSIS REPORT







CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Unique Number : 5760786

: WC0877887 Lab Number : 02627654

Test Package : MOB 1

To discuss this sample report, contact Customer Service at 1-800-268-2131.

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

Received : 09 Apr 2024 **Tested** : 09 Apr 2024 Diagnosed

: 09 Apr 2024 - Wes Davis

2200 UPPER JAMES,, MOUNTAIN TRANSIT STOREROOM MOUNT HOPE, ON

CA LOR 1W0 Contact: Jeff Parr jeff.parr@hamilton.ca T: (905)546-2424

F: (905)679-4502

CITY OF HAMILTON

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.

Contact/Location: Jeff Parr - HAMHAM