

OIL ANALYSIS REPORT

Sample Rating Trend



2274 Component Natural Gas Engine {not provided} (--- GAL)

Machine Id

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

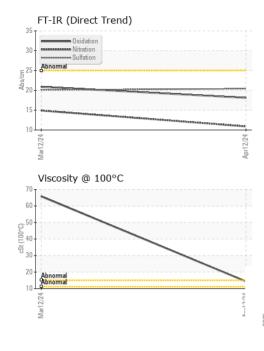
Fluid Condition

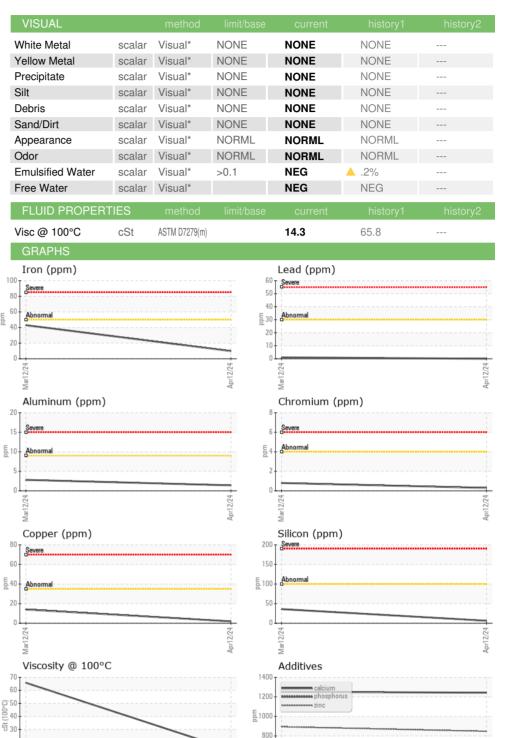
The condition of the oil is acceptable for the time in service.

			Mar2024	Apr2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0917653	WC0917399	
Sample Date		Client Info		12 Apr 2024	12 Mar 2024	
Machine Age	kms	Client Info		17889	11260	
Oil Age	kms	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	SEVERE	
CONTAMINATION	J	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
Glycol		WC Method			0.0	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>50	10	43	
Chromium	ppm	ASTM D5185(m)	>4	<1	<1	
Nickel	ppm	ASTM D5185(m)	>2	<1	2	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)	>3	0	0	
Aluminum	ppm	ASTM D5185(m)		1	3	
Lead	ppm	ASTM D5185(m)	>30	0	1	
Copper	ppm	ASTM D5185(m)		2	14	
Tin	ppm	ASTM D5185(m)	>4	0	<1	
Antimony	ppm	ASTM D5185(m)	7 7	0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Derymum	ppiii	A31101 D3103(111)		U	U	
Cadmium	nnm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
Cadmium ADDITIVES	ppm	method	limit/base	current	history1	history2
	ppm	method ASTM D5185(m)	limit/base	current 20	history1	
ADDITIVES Boron Barium		method ASTM D5185(m) ASTM D5185(m)	limit/base	current 20 <1	history1 19 2	history2
ADDITIVES Boron	ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	current 20	history1 19 2 55	history2
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	current 20 <1 52	history1 19 2 55 13	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	current 20 <1 52	history1 19 2 55 13 825	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	current 20 <1 52 1 829 1243	history1 19 2 55 13	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	method ASTM D5185(m)	limit/base	current 20 <1 52 1 829	history1 19 2 55 13 825 1252 739	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	current 20 <1 52 1 829 1243 693 847	history1 19 2 55 13 825 1252	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base	current 20 <1 52 1 829 1243 693 847 1938	history1 19 2 55 13 825 1252 739	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base	current 20 <1 52 1 829 1243 693 847	history1 19 2 55 13 825 1252 739 894	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base	current 20 <1 52 1 829 1243 693 847 1938	history1 19 2 55 13 825 1252 739 894 2093	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)		current 20 <1 52 1 829 1243 693 847 1938 <1	history1 19 2 55 13 825 1252 739 894 2093 <1	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base	current 20 <1 52 1 829 1243 693 847 1938 <1 current	history1 19 2 55 13 825 1252 739 894 2093 <1 history1	history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base	current 20 <1 52 1 829 1243 693 847 1938 <1 current 6	history1 19 2 55 13 825 1252 739 894 2093 <1 history1 36	history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base >+100	current 20 <1 52 1 829 1243 693 847 1938 <1 current 6 2	history1 19 2 55 13 825 1252 739 894 2093 <1 history1 36 8	history2 history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base >+100 >20	current 20 <1 52 1 829 1243 693 847 1938 <1 current 6 2 <1	history1 19 2 55 13 825 1252 739 894 2093 <1 history1 36 8 3	history2 history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base >+100 >20	current 20 <1 52 1 829 1243 693 847 1938 <1 current 6 2 <1	history1 19 2 55 13 825 1252 739 894 2093 <1 history1 36 8 3 history1	history2 history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base >+100 >20 limit/base	current 20 <1 52 1 829 1243 693 847 1938 <1 current 6 2 <1 current	history1 19 2 55 13 825 1252 739 894 2093 <1 history1 36 8 3 history1 0	history2 history2 history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base >+100 >20 limit/base	current 20 <1 52 1 829 1243 693 847 1938 <1 current 6 2 <1 current 0 10.9	history1 19 2 55 13 825 1252 739 894 2093 <1 history1 36 8 3 history1 0 14.9	history2 history2 history2 history2



OIL ANALYSIS REPORT









Laboratory Sample No.

: WC0917653 Lab Number : 02629180 Unique Number : 5762312

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

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

Test Package : MOB 1 (Additional Tests: Visual)

Received **Tested** Diagnosed

: 16 Apr 2024 : 16 Apr 2024

: 16 Apr 2024 - Wes Davis

600

CITY OF HAMILTON 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

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