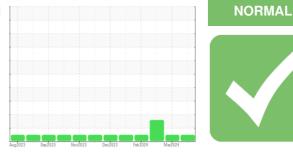


OIL ANALYSIS REPORT

SAMPLE INFORMATION method

Sample Rating Trend



200288 Component Diesel Engine Fluid TEST OIL GOLD 4 (40 LTR)

DIAGNOSIS

Area **KDAC** Machine Id

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		mounda			motory	
Sample Number		Client Info		WC0926310	WC0888906	WC0888886
Sample Date		Client Info		16 Apr 2024	07 Mar 2024	22 Feb 2024
Machine Age	kms	Client Info		342506	316959	305680
•	kms	Client Info		16330	55742	44463
Oil Age	KIIIS					
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	0.4
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>200	13	40	35
Chromium	ppm	ASTM D5185(m)	>6	<1	2	2
Nickel	ppm	ASTM D5185(m)	>3	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum		ASTM D5185(m)		3	13	12
Lead	ppm	ASTM D5185(m)	>10	0	<1	<1
	ppm					
Copper	ppm	ASTM D5185(m)		10	32	25
Tin	ppm	ASTM D5185(m)	>6	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)	1	<1	<1	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	59	64	62
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	964	983	1005
Calcium	ppm	ASTM D5185(m)	980	1046	1129	1107
Phosphorus	ppm	ASTM D5185(m)	1100	965	924	999
Zinc	ppm	ASTM D5185(m)	1150	1155	1211	1205
Sulfur						
	maa	ASTM D5185(m)	2600	2348	2230	2342
Lithium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	2600	2348 <1	2230 <1	2342 <1
Lithium CONTAMINANTS	ppm	ASTM D5185(m) ASTM D5185(m) method				
	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	ppm	ASTM D5185(m) method	limit/base	<1 current	<1 history1	<1 history2
CONTAMINANTS	ppm ppm	ASTM D5185(m) method ASTM D5185(m)	limit/base	<1 current 1	<1 history1 4	<1 history2 4
CONTAMINANTS Silicon Sodium	ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m)	limit/base	<1 current 1 1	<1 history1 4 2	<1 history2 4 2
CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base >50 >20	<1 current 1 1 5	<1 history1 4 2 23	<1 history2 4 2 22
CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method	limit/base >50 >20 limit/base	<1 current 1 1 5 current	<1 history1 4 2 23 history1	<1 history2 4 2 22 history2
CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm % Abs/cm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D7844*	limit/base >50 >20 limit/base >3	<1 current 1 1 5 current 0.4 7.2	<1 history1 4 2 23 history1 1.1	<1 history2 4 2 22 history2 0.9 10.8
CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Nitration(Diff)	ppm ppm ppm ppm ppm % Abs/cm Abs/cm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D7844* ASTM D7624* ASTM D762412	limit/base >50 >20 limit/base >3 >20 < 25	<1 current 1 1 5 current 0.4 7.2 6.2	<1 history1 4 2 23 history1 1.1 10.8 14.4	<1 history2 4 2 22 history2 0.9 10.8 14.1
CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm % Abs/cm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D7844* ASTM D7824*	limit/base >50 >20 limit/base >3 >20	<1 current 1 1 5 current 0.4 7.2	<1 history1 4 2 23 history1 1.1 1.0.8	<1 history2 4 2 22 history2 0.9 10.8

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OIL ANALYSIS REPORT

Visual*

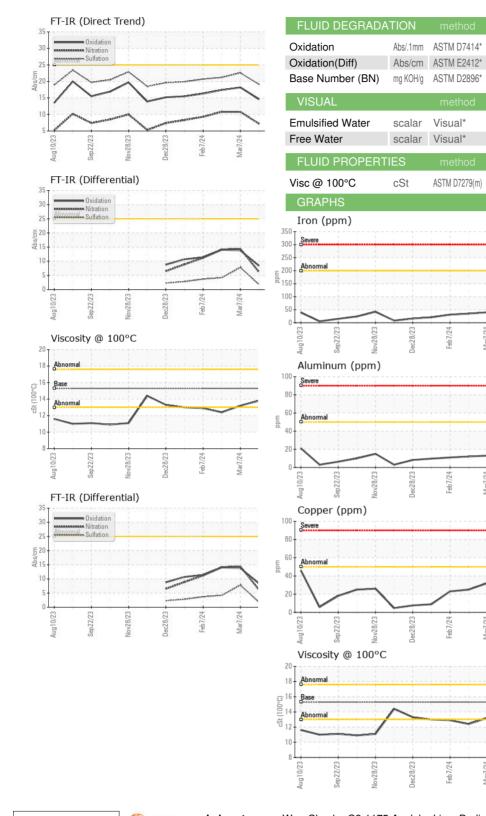
Visual*

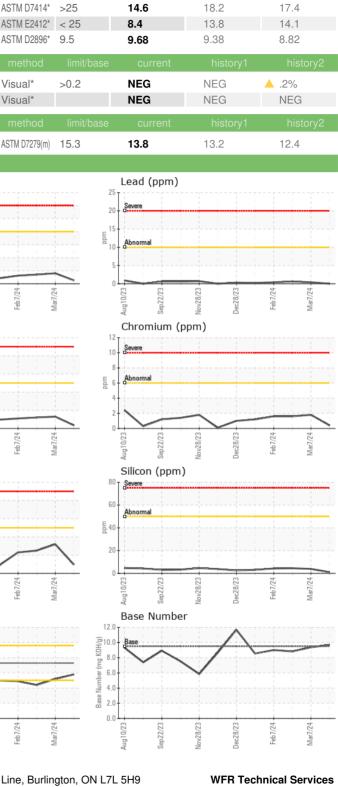
PC/L/4

Ph7/74

eh7/74

Feb7/24





Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : WC0926310 Received : 22 Apr 2024 Lab Number : 02630444 Tested : 23 Apr 2024 ISO 17025:2017 Accredited Laboratory Unique Number : 5763576 Diagnosed : 23 Apr 2024 - Kevin Marson Test Package : MOB 2 (Additional Tests: FT-IR(Diff)) 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.

5389 Riverside Drive Burlington, ON CA L7L 3Y1 Contact: William Ridley wfr.technical.services@gmail.com Т: F:

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Submitted By: William Ridley Page 2 of 2