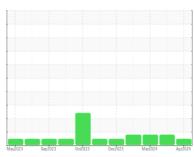


OIL ANALYSIS REPORT

Sample Rating Trend







Area BD SHOP 300215

Diesel Engine

TEST OIL GOLD 4 (40 LTR)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

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.

		May2023	Sep2023 Oct2023	Dec2023 Mar2024	Apr2024	
SAMPLE INFORM	MATION	method	limit/base	ourront	history1	history?
	IATION		IIIIIIVDase	current	history1	history2
Sample Number		Client Info		WC0926315	WC0926314	WC0888904
Sample Date		Client Info		11 Apr 2024	11 Apr 2024	08 Mar 2024
Machine Age	kms	Client Info		241126	241125	227102
Oil Age	kms	Client Info		1	60130	46107
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	SEVERE	ABNORMAL
CONTAMINATION	1	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	0.0
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	3	43	33
Chromium	ppm	ASTM D5185(m)	>20	0	3	2
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	27	0	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	3	<u></u> 40	<u> </u>
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	<1	3	2
Tin	ppm	ASTM D5185(m)	>15	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	2	2
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	56	61	62
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	937	997	995
Calcium	ppm	ASTM D5185(m)	980	998	1079	1093
Phosphorus	ppm	ASTM D5185(m)	1100	958	981	1018
Zinc	ppm	ASTM D5185(m)		1113	1198	1205
Sulfur	ppm	ASTM D5185(m)	2600	2463	2315	2645
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	2	5	6
Sodium	ppm	ASTM D5185(m)		1	2	2
Potassium	ppm	ASTM D5185(m)	>20	<1	8	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	1.2	0.9
Nitration	Abs/cm	ASTM D7624*	>20	4.5	9.8	8.9
Nitration(Diff)	Abs/cm	ASTM E2412*	< 25	0.2	13.3	11.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.5	22.2	20.6
Culturi (Ditt)	7 10 0/ · · · · · · · · · · · · · · · · · ·	AOTH 50440	700		2.5.	_5.0

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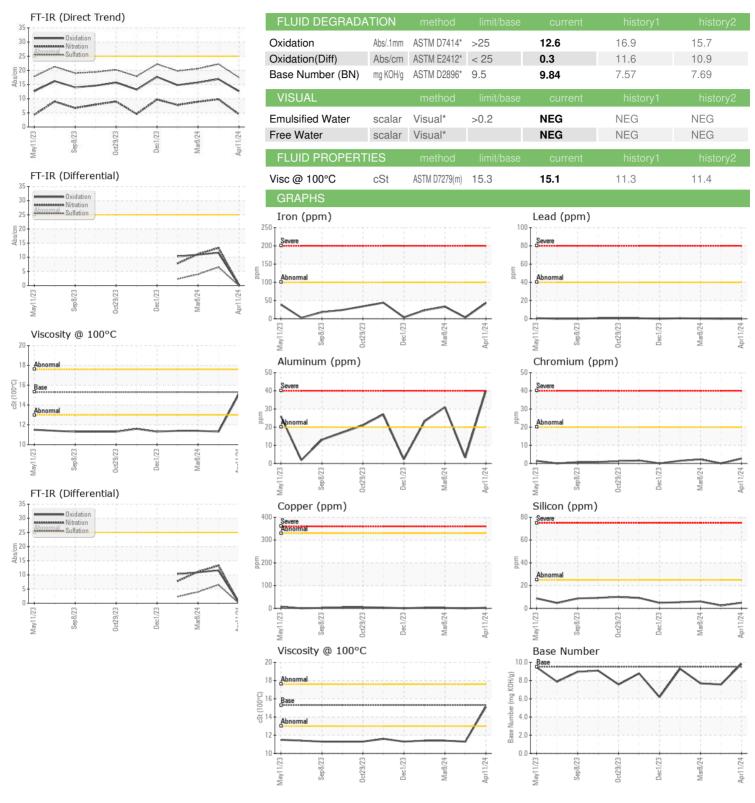
Sulfation(Diff)

Abs/cm ASTM E2412*

Submitted By: William Ridley



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02630442 Unique Number : 5763574

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0926315

Received **Tested**

Diagnosed

: 22 Apr 2024 : 23 Apr 2024

: 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.

WFR Technical Services

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

> T: F:

Submitted By: William Ridley