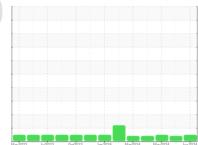


OIL ANALYSIS REPORT



Sample Rating Trend





Area KDAC 200253 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	Jul2023 Oct2023	Jan 2024 Mar 2024 May 2024	Jun2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0926285	WC0926325	WC0926326
Sample Date		Client Info		15 Jun 2024	01 May 2024	01 May 2024
Machine Age	kms	Client Info		271286	252020	252021
Oil Age	kms	Client Info		27130	67120	1
Oil Changed		Client Info		N/A	Not Changd	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINATIO	V	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	0.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	9	29	2
Chromium	ppm	ASTM D5185(m)	>20	<1	2	0
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	3	9	<1
Lead	ppm	ASTM D5185(m)	>40	<1	2	0
Copper	ppm	ASTM D5185(m)	>330	<1	1	<1
Tin	ppm	ASTM D5185(m)	>15	0	<1	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	4	1
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	59	63	56
Manganese	ppm	ASTM D5185(m)	0	<1	<1	0
Magnesium	ppm	ASTM D5185(m)	950	947	1007	939
Calcium	ppm	ASTM D5185(m)	980	1041	1090	1008
Phosphorus	ppm	ASTM D5185(m)	1100	947	1016	973
Zinc	ppm	ASTM D5185(m)	1150	1145	1223	1125
Sulfur	ppm	ASTM D5185(m)	2600	2469	2355	2478
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	4	3
Sodium	ppm	ASTM D5185(m)		5	2	<1
Potassium	ppm	ASTM D5185(m)	>20	15	19	<1
Glycol	%	ASTM D7922*		0.0	0.0	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.1	0.4	0
Nitration	Abs/cm	ASTM D7624*	>20	6.3	9.3	4.4
Nitration(Diff)	Abs/cm	ASTM E2412*	< 25	4.4	11	0.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.0	21.3	17.4
Sulfation(Diff)	Abs/cm	ASTM E2412*		1.7	5.6	0

Submitted By: William Ridley



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number

: WC0926285 : 02642263 Unique Number : 5799802

Received **Tested** Diagnosed : 17 Jun 2024

: 18 Jun 2024

: 19 Jun 2024 - Kevin Marson

Test Package : MOB 2 (Additional Tests: FT-IR(Diff), Glycol) 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