

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area **KDAC** Machine Id **200300** Component **Diesel Engine** Fluid

TEST OIL GOLD 4 (40 LTR)

DIAGNOSIS

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.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0864709	WC0888926	WC0864693
Sample Date		Client Info		22 Dec 2023	22 Dec 2023	03 Dec 2023
Machine Age	kms	Client Info		245865	245864	236707
Oil Age	kms	Client Info		1	60118	50961
Oil Changed	KIIIO	Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
· ·		un otto o d	line it /b e e e			
CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	4	34	28
Chromium	ppm	ASTM D5185(m)	>20	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>15	<1	3	3
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	12	9
Lead	ppm	ASTM D5185(m)	>40	<1	2	1
Copper	ppm	ASTM D5185(m)	>330	4	35	21
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
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	<1
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	54	61	59
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	911	965	932
Calcium	ppm	ASTM D5185(m)	980	996	1084	1034
Phosphorus	ppm	ASTM D5185(m)	1100	938	902	893
Zinc	ppm	ASTM D5185(m)	1150	1103	1184	1149
Sulfur	ppm	ASTM D5185(m)	2600	2546	2439	2311
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	5	4
Sodium	ppm	ASTM D5185(m)		1	2	2
Potassium	ppm	ASTM D5185(m)	>20	2	12	9
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0	0.9	0.9
Nitration	Abs/cm	ASTM D7624*	>20	5.0	9.9	10.1
Nitration(Diff)	Abs/cm	ASTM D7624*		0.2	1.6	
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.1	21.3	21.8
0				-	4.0	
Sulfation(Diff)	Abs/cm	ASTM D7415*		0	4.9	



cSt (100°C) 1

13

5/3um

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Abs/.1mm ASTM D7414*

Abs/cm ASTM D7414*

>25

9.5

FLUID DEGRADATION

Oxidation

Oxidation(Diff)

Base Number (BN)

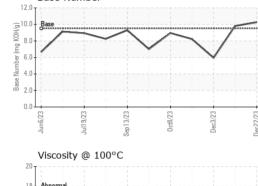
Base Number

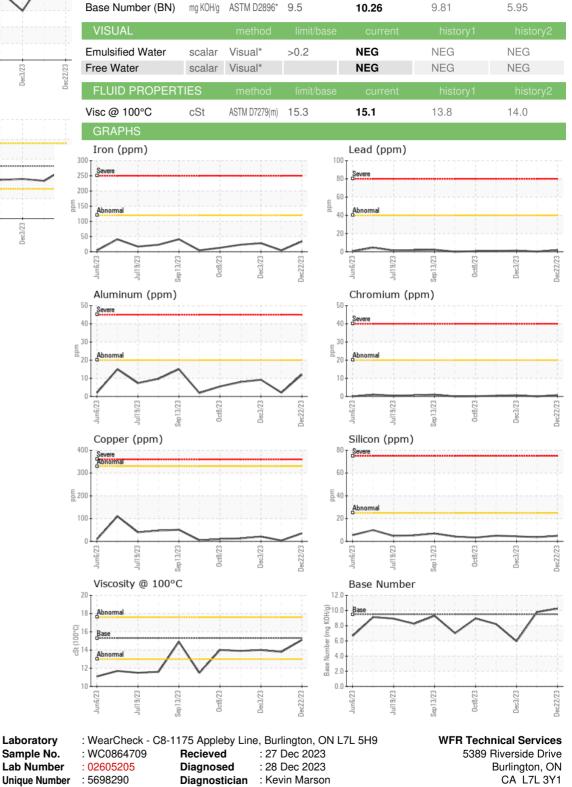
Jul19/23

Sep13/23

Dec3/23

Jet8/73





13.2

0.7

15.5

10.7

9.81

16.7

5.95

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.

CALA

ISO 17025:2017 Accredited

Laboratory

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