

OIL ANALYSIS REPORT

Sample Rating Trend





Area **KDAC** 200300 Component **Diesel Engine**

TEST OIL GOLD 4 (40 LT

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.

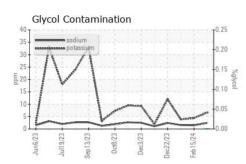
Fluid Condition

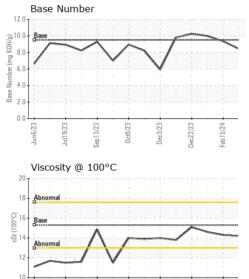
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

.TR)		Jun2023	Jui2023 Sep2023 0	et2023 Dec2023 Dec2023	Feb2024	
SAMPLE INFORM	MATION	method	limit/base	e current	history1	history2
Sample Number		Client Info		WC0888910	WC0888878	WC0888929
Sample Date		Client Info		14 Mar 2024	15 Feb 2024	29 Jan 2024
Machine Age	kms	Client Info		292202	273596	264348
Oil Age	kms	Client Info		46338	27732	18485
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	e current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	e current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	36	26	22
Chromium	ppm	ASTM D5185(m)		<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>15	4	4	3
Titanium	ppm	ASTM D5185(m)		4	0	0
Silver	ppm	ASTM D5185(m) ASTM D5185(m)		۰ 1	<1	<1
Aluminum	ppm	ASTM D5185(m) ASTM D5185(m)		11	< 1	7
Lead	ppm	ASTM D5185(m)		1	<1	<1
Copper	ppm	. ,		27	17	14
Tin	ppm	ASTM D5185(m)		<1	<1	<1
Antimony	ppm	ASTM D5185(m)	210	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	e current	history1	history2
Boron	ppm	ASTM D5185(m)	1	<1	<1	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	62	59	59
Manganese	ppm	ASTM D5185(m)		<1	0	0
Magnesium	ppm	ASTM D5185(m)	950	943	961	961
Calcium	ppm	ASTM D5185(m)		1090	1063	1056
Phosphorus	ppm	ASTM D5185(m)	1100	945	1004	991
Zinc	ppm	ASTM D5185(m)	1150	1168	1166	1165
Sulfur	ppm	ASTM D5185(m)	2600	2530	2654	2672
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	5	method	limit/base	e current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	4	4
Sodium	ppm	ASTM D5185(m)		2	2	2
Potassium	ppm	ASTM D5185(m)	>20	7	4	4
Glycol	%	ASTM D7922*		0.0	NEG	NEG
INFRA-RED		method	limit/base	e current	history1	history2
Soot %	%	ASTM D7844*	>4	0.7	0.5	0.4
Nitration	Abs/cm	ASTM D7624*	>20	10.2	8.9	7.7
Nitration(Diff)	Abs/cm	ASTM E2412*		13.9	10.4	7.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.3	20.4	19.7
Sulfation(Diff)	Abs/cm	ASTM E2412*		5.3	3.1	2.2



OIL ANALYSIS REPORT





ep13/23

Dec22/23

eb15/24

Laboratory

Sample No.

ar 3/73





un6/23

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CALA

Submitted By: William Ridley Page 2 of 2