

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **DFGS061033**

Diesel Engine Fluid **DIESEL ENGINE OIL SAE 30 (--- GAL)**

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

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	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0911012	WC0731354	WC0590510
Sample Date		Client Info		03 Mar 2024	21 Nov 2022	19 Aug 2021
Machine Age	hrs	Client Info		19906	18503	16993
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	MARGINAL	ABNORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	A 3.3	5 .9
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 D5185m	>100	14	9	11
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	1	6
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	0	0	<1
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	363	359	277
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	81	82	114
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	450	390	368	508
Calcium	ppm	ASTM D5185m	3000	1362	1453	1412
Phosphorus	ppm	ASTM D5185m	1150	984	918	656
Zinc	ppm	ASTM D5185m	1350	1171	1199	775
Sulfur	ppm	ASTM D5185m	4250	3508	3500	2043
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	3	4
Sodium	ppm	ASTM D5185m	>75	11	6	11
Potassium	ppm	ASTM D5185m	>20	3	0	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.3	8.2	9
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	22.8	21.3
					1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
FLUID DEGRADA Oxidation	TION Abs/.1mm	method *ASTM D7414	limit/base	current 18.2	history1 18.1	history2 19.9

Contact/Location: Timothy Dougherty - DOLWIL



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18

14

12 10

10

Feb4/

16

15

14

(100-c) 12 cst (100-c) 11 cst

10

8 Feb4/10 -

Bas

Abnormal

0ct5/17

f Viscosity @ 100°C

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	10.9	12.6	12.5	▲ 11.9
СРАРИС						



Aug 19/21

Jov21/22

Mar3/24

IC/LC/UE





Jan27/20

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Contact/Location: Timothy Dougherty - DOLWIL