

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **722016-305155** Component **Diesel Engine**

Fluid 15W40 MFA (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

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 INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103636	GFL0046097	GFL0046095
Sample Date		Client Info		24 May 2024	10 Mar 2024	10 Dec 2023
Machine Age	hrs	Client Info		450	450	450
Oil Age	hrs	Client Info		450	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	c10	<1.0	<10
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method	20.2	NEG	NEG	NEG
WEAR METAL	۹	method	limit/hase	current	history1	history2
			100	current		
Iron	ppm	ASTM D5185M	>120	21	57	26
Chromium	ppm	ASTM D5185M	>20	<1	1	<1
NICKEI	ppm	ASTM D5185m	>5	6	22	12
Litanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	1	2
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	15	9	8
Tin	ppm	ASTM D5185m	>15	0	1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		59	58	58
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		914	890	869
Calcium	ppm	ASTM D5185m		1118	1137	863
Phosphorus	ppm	ASTM D5185m		981	986	831
Zinc	ppm	ASTM D5185m		1198	1211	1026
Sulfur	ppm	ASTM D5185m		3117	2821	2541
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	9	11
Sodium	ppm	ASTM D5185m		5	10	5
Potassium	ppm	ASTM D5185m	>20	0	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.5	0.8	0.5
Nitration	Abs/cm	*ASTM D7624	>20	9.1	15.8	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	28.8	23.0
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	30.7	20.0
Base Number (BN)	ma KOH/a	ASTM D2896		7.5	<u> </u>	5.4
Dase Number (DN)	ing itoning	101111 01000		-		



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VISUAL		method			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	NONE	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 PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		13.2	12.4	12.5
GRAPHS						

Ferrous Alloys



* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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