

# **OIL ANALYSIS REPORT**

Sample Rating Trend



(TKPM2) Machine Id 727151 Component Diesel Engine Fluid

## Fluid DIESEL ENGINE OIL SAE 40 (--- GAL)

## DIAGNOSIS Recommendation

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

Area

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

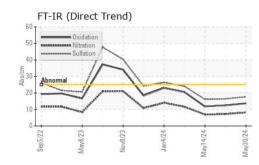
### Fluid Condition

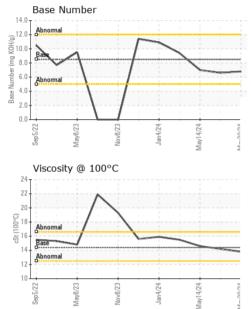
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122068	GFL0122049	GFL0116594
Sample Date		Client Info		30 May 2024	17 May 2024	14 May 2024
Machine Age	hrs	Client Info		17348	17270	17220
Oil Age	hrs	Client Info		17348	17270	17220
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method	,	NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
					12	
Iron	ppm	ASTM D5185m	>90	22 1	<1	13 <1
Chromium Nickel	ppm	ASTM D5185m	>20	۱ <1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0 <1
Silver	ppm	ASTM D5185m ASTM D5185m	>2	<1 <1	<1	<1
	ppm			5	4	4
Aluminum Lead	ppm	ASTM D5185m ASTM D5185m	>20 >40	ວ <1	4 <1	4
	ppm			4	2	<1
Copper Tin	ppm	ASTM D5185m ASTM D5185m	>330	4 <1	2	0
Vanadium	ppm	ASTM D5185m	>10	<1	0	0
	ppm			<1 <1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	58	75	72
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	88	87	83
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	47	40	46
Calcium	ppm	ASTM D5185m	3000	2000	2212	2284
Phosphorus	ppm	ASTM D5185m	1150	951	1017	1020
Zinc	ppm	ASTM D5185m	1350	1133	1221	1286
Sulfur	ppm	ASTM D5185m	4250	3721	4531	4670
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	12	9	9
Sodium	ppm	ASTM D5185m	>216	1	<1	<1
Potassium	ppm	ASTM D5185m	>20	3	1	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.3	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.2	7.2	6.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	16.4	16.1
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	12.5	11.8
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.8	6.6	7.0

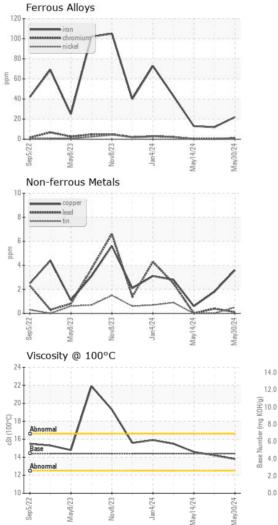


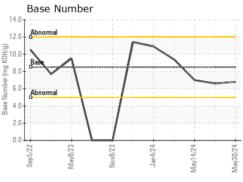
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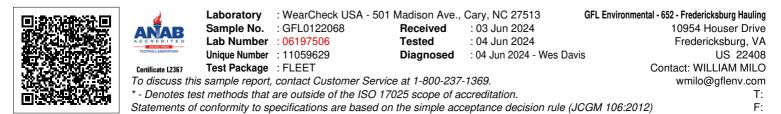




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	14.4	13.8	14.2	14.6
GRAPHS						







Submitted By: TECHNICIAN ACCOUNT