

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 413108

Component Diesel Engine Fluid MOBIL 5W30 (--- GAL)

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	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0099935	GFL0095092	GFL0090713
Sample Date		Client Info		17 Nov 2023	23 Oct 2023	02 Oct 2023
Machine Age	hrs	Client Info		3029	2806	2627
Oil Age	hrs	Client Info		600	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	ATTENTION	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	5	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	9	24	4
Chromium	ppm	ASTM D5185m	>5	<1	1	0
Nickel	ppm	ASTM D5185m	>2	1	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>30	7	4	8
Lead	ppm	ASTM D5185m	>30	0	1	0
Copper	mag	ASTM D5185m	>150	6	1	5
Tin	maa	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		145	<1	315
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		104	62	114
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		806	965	724
Calcium	ppm	ASTM D5185m		1334	1061	1381
Phosphorus	ppm	ASTM D5185m		796	1110	691
Zinc	ppm	ASTM D5185m		954	1255	850
Sulfur	ppm	ASTM D5185m		2526	3691	2452
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	6	4	4
Sodium	ppm	ASTM D5185m		1	5	<1
Potassium	ppm	ASTM D5185m	>20	7	2	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.7	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.9	8.3	6.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	20.8	23.5
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.6	16.5	19.2
Base Number (BN)	mg KOH/g	ASTM D2896		7.9	8.4	8.6
	0 0					

Contact/Location: See also GFL823, 834, 837, 840 - Robert Hart - GFL836



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30

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		10.7	▲ 14.4	9.9
GRAPHS						
Ferrous Alloys						



To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)

Certificate L2367

Contact/Location: See also GFL823, 834, 837, 840 - Robert Hart - GFL836

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