

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area (YA172365) {UNASSIGNED} 913177 Component Diesel Engine

Fluid

DIESEL ENGINE OIL SAE 40 (8 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.

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 INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090052	GFL0090040	GFL0080569
Sample Date		Client Info		02 Apr 2024	22 Mar 2024	23 Aug 2023
Machine Age	hrs	Client Info		0	1726	0
Oil Age	hrs	Client Info		0	1726	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	6	38	17
Chromium	ppm	ASTM D5185m	>20	<1	2	<1
Nickel	ppm	ASTM D5185m	>5	1	1 1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	2	4	6
Lead	ppm	ASTM D5185m	>40	0	1	0
Copper	ppm	ASTM D5185m	>330	4	30	11
Tin	ppm	ASTM D5185m	>15	<1	2	1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	5	3	12
Barium	ppm	ASTM D5185m	10	0	1	0
Molybdenum	ppm	ASTM D5185m	100	59	65	69
Manganese	ppm	ASTM D5185m		<1	3	1
Magnesium	ppm	ASTM D5185m	450	877	892	1013
Calcium	ppm	ASTM D5185m	3000	1048	1108	1176
Phosphorus	ppm	ASTM D5185m	1150	939	975	1059
Zinc	ppm	ASTM D5185m	1350	1117	1216	1308
Sulfur	ppm	ASTM D5185m	4250	2984	2752	3689
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	10	10
Sodium	ppm	ASTM D5185m	>216	3	8	3
Potassium	ppm	ASTM D5185m	>20	4	14	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.7	0.4
Nitration	Abs/cm	*ASTM D7624	>20	5.6	10.1	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9	21.2	19.7
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8	17.3	15.5
	ma KOH/a	ASTM D2806	85	86	5.8	8.2



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VISUAL		methou	iiiiii/base	Current	Thistory I	This tory Z
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	13.9	13.3	13.3
CRADHC						



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

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