

### **OIL ANALYSIS REPORT**

Sample Rating Trend



# LSTK61

#### Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 40 (--- GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

#### Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0006811	SBP0005316	SBP0005327
Sample Date		Client Info		18 Mar 2024	21 Feb 2024	05 Feb 2024
Machine Age	mls	Client Info		12000	12000	12000
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	NORMAI	NORMAI
			11 1. 1			
CONTAMINATION	N	method	limit/base	current	history1	history2
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	8	16	11
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	mag	ASTM D5185m	250	0	<1	<1
Barium	mag	ASTM D5185m	10	0	0	0
Molvbdenum	mag	ASTM D5185m	100	55	66	68
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	450	984	1028	1036
Calcium	ppm	ASTM D5185m	3000	1073	1091	1099
Phosphorus	ppm	ASTM D5185m	1150	898	1064	1062
Zinc	ppm	ASTM D5185m	1350	1222	1325	1317
Sulfur	ppm	ASTM D5185m	4250	3362	3246	3201
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	6	5
Sodium	ppm	ASTM D5185m	>216	2	3	3
Potassium	ppm	ASTM D5185m	>20	0	2	4
Fuel	%	ASTM D3524	>5	0.4	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<u>_3</u>	0.4	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.0	7.3	7.0
Sulfation	Abs/ 1mm	*ASTM D7415	>30	19.2	19.4	19.3
	TION		line it /		bistored	histor 0
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	15.1	14.8
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.4	8.4	8.3



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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
FI UID PROPERT	IFS	method	limit/base	current	historv1	history2
	01				10.7	10.5
VISC @ 100°C	cSt	ASTM D445	14.4	10.9	13.7	13.5
GRAPHS						





Certificate L2367

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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