

## Machine Id KENWORTH 426141-SW4617 Component Diesel Engine Fluid MOBIL DELVAC ELITE 15W40 (--- GAL)

MODIE DEEVAG LEITE 15W40 ( GAE)							
<b>RECOMMENDATION</b> The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. No other corrective action is recommended at this time.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0111274	GFL0111322	
	Sample Date		Client Info		12 Jul 2024	24 May 2024	
	Machine Age	hrs	Client Info		16725	16568	
	Oil Age	hrs	Client Info		157	16568	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	SEVERE	
WEAR	Iron	ppm	ASTM D5185m	>100	31	31	
	Chromium	ppm	ASTM D5185m	>20	2	1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>20	6	10	
	Lead	ppm	ASTM D5185m	>40	0	2	
	Copper	ppm	ASTM D5185m	>330	4	8	
	Tin	ppm	ASTM D5185m	>15	0	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		12	7	
Light fuel dilution occurring. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185m		8	17	
	Fuel	%	ASTM D3524		<b>A</b> 3.6	<b>8</b> .9	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.4	1	
	Nitration	Abs/cm	*ASTM D7624		10.7	15.8	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	26.3	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		8	9	
The BN result indicates that there is suitable alkalinity remaining in the oil. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		82	29	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		116	118	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m		<b>5</b> 91	625	
	Calcium	ppm	ASTM D5185m		1118	1282	
	Phosphorus	ppm	ASTM D5185m		638	764	
	Zinc	ppm	ASTM D5185m		781	841	
	Culture.	111			0707	0700	

Sulfur

Oxidation

Visc @ 100°C cSt

 ppm
 ASTM D5185m

 Abs/.1mm
 \*ASTM D7414
 >25

ASTM D445 15.2

Base Number (BN) mg KOH/g ASTM D2896 10.7

3708

23.8

5.0

12.3

2785

15.1

6.4

12.4



