

OIL ANALYSIS REPORT

Area CONSTRUCTORS, INC 100481

Diesel Engine Fluid MOBIL DELVAC 1300 SUPER15W40 (--- GA

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

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.

()		Apr202	2 Sep2022	Jun2023 M	ar2024	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0006366	SBP0000693	SBP0001277
Sample Date		Client Info		28 Mar 2024	28 Jun 2023	22 Sep 2022
Machine Age	hrs	Client Info		644	544	442
Oil Age	hrs	Client Info		100	102	94
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ATTENTION	ATTENTION	ATTENTION
CONTAMINATION	N	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		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	38	45	61
Chromium	ppm	ASTM D5185m	>20	0	1	2
Nickel	maa	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	4	7
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	3	6
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	13	30
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	56	49	39
Manganese	ppm	ASTM D5185m		0	<1	1
Magnesium	ppm	ASTM D5185m	0	987	864	625
Calcium	ppm	ASTM D5185m		1207	1305	1400
Phosphorus	ppm	ASTM D5185m		1051	973	845
Zinc	ppm	ASTM D5185m		1233	3829	3503
	ppm		Prosite/Income	5700	0020	bister 0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	8	10
Sodium	ppm	ASTM D5185m		1	3	2
Potassium	ppm	ASTM D5185m	>20	U	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	5.0	6.8	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.0	19.4	21.4
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2	16.5	18.3
Base Number (BN)	ma KOH/a	ASTM D2896	94	9.0	92	10.9

Sample Rating Trend

VISCOSITY



15

Apr1

Ba

12

Base

0.0 Apr11/22

Base Number

OIL ANALYSIS REPORT



Sep22/22

ep22/22

VISUAL						
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
	TIES	method	limit/base	current	history1	history2
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Visc @ 100°C	cSt	ASTM D445	14	— 11.6	11.4	11.7
GRAPHS						





