

## **OIL ANALYSIS REPORT**

## Area CONSTRUCTORS, INC Machine Id 090779

Diesel Engine Fluid MOBIL DELVAC 1300 SUPER 10W30 (--- G

#### DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

<b>A1</b> )		• • •				
AL)		epzulo Novzu	110 NOV2019 NNBY2020 JI	INZUZZ SEPZUZZ WIBYZUZ3 SEPZUZ3	Jan2U24	
SAMPLE INFORM	ΛΑΤΙΟΝ	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0006614	SBP0005714	SBP0004938
Sample Date		Client Info		19 Jun 2024	04 Jan 2024	19 Oct 2023
Machine Age	hrs	Client Info		14839	14531	14049
Oil Age	hrs	Client Info		500	482	493
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	NORMAL
CONTAMINATIO	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	>250	24	12	13
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>35	3	1	1
Lead	ppm	ASTM D5185m	>100	3	1	<1
Copper	ppm	ASTM D5185m	>60	2	<1	<1
Tin	ppm	ASTM D5185m	>5	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		8	7	29
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		62	60	46
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		1018	970	611
Calcium	ppm	ASTM D5185m		1348	1269	1593
Phosphorus	ppm	ASTM D5185m		1089	1082	802
Zinc	ppm	ASTM D5185m		1409	1380	1030
Sulfur	ppm	ASTM D5185m		3486	3187	2498
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	4	3	4
Sodium	ppm	ASTM D5185m		4	3	4
Potassium	ppm	ASTM D5185m	>20	4	0	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	13.5	9.6	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.0	19.7	21.4
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	30.5	18.5	21.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	6.6	8.6	8.9

Sample Rating Trend

VISCOSITY



# **OIL ANALYSIS REPORT**







VISUAL						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
		mothod	limit/baco	ourropt	history1	history?
I LOID I NOI LINI	IL0	methou	iiiiii/base	Current	nistory i	TIIStoryz
Visc @ 100°C	cSt	ASTM D445	11.9	<b>15.0</b>	12.7	12.4

Ferrous Alloys





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Constructors Inc. - 603659 Sample No. :SBP0006614 Received : 24 Jun 2024 1815 Y Street Lab Number : 06219004 Tested : 26 Jun 2024 Lincoln, NE US 68508 Unique Number : 11097201 Diagnosed : 26 Jun 2024 - Don Baldridge Test Package : FLEET Contact: Loren Michael Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. LorenM@constructorslincoln.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (402)434-2157 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Report Id: CONLINNE [WUSCAR] 06219004 (Generated: 06/29/2024 19:43:29) Rev: 1

Submitted By: Loren Michael

Page 2 of 2