

OIL ANALYSIS REPORT

Area CONSTRUCTORS, INC 141849

Diesel Engine

MOBIL DELVAC 1300 SUPER 10W30 (--- GAL)

DIAGNOSIS

Recommendation

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



Sample Rating Trend

SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0007157	SBP0004577	SBP0001309
Sample Date		Client Info		09 May 2024	15 Sep 2023	15 Mar 2023
Machine Age	hrs	Client Info		5233	4867	4569
Oil Age	hrs	Client Info		366	298	405
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	J	mothod	limit/baco	ourront	history1	history?
	N	methou		Current	HIStory	TIIStoryz
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	26	23	17
Chromium	ppm	ASTM D5185m	>20	2	2	1
Nickel	ppm	ASTM D5185m	>4	<1	1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	10	8	8
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	4	1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		18	40	28
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		66	39	57
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		890	496	835
Calcium	ppm	ASTM D5185m		1373	1527	1480
Phosphorus	ppm	ASTM D5185m		961	672	961
Zinc	ppm	ASTM D5185m		1214	863	1177
Sulfur	ppm	ASTM D5185m		3103	2284	2986
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	maa	ASTM D5185m	>25	12	10	7
Sodium	mag	ASTM D5185m	. =•	1	4	1
Potassium	ppm	ASTM D5185m	>20	3	<1	1
INFRA-RED		method	limit/base	current	historv1	historv2
Soot %	0/	*AQTM D7044	> 2	0.2	0	0.2
SUUL %	70 Abc/om	*ASTM D7624	>0	0.2	10.0	U.2 7 9
Sulfation	Abs/CIII	*AGTM D7415	>20	9.1	10.0 26 F	7.0
Sullation	AUS/.1MM	ASTIVI D/415	>30	21.7	20.0	20.0
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.6	25.4	17.9
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.0	10.8	9.9



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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
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	11.9	12.2	11.7	11.5
GRAPHS						





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Constructors Inc. - 603659 : SBP0007157 Sample No. Received : 13 May 2024 1815 Y Street Lab Number : 06178078 Tested : 14 May 2024 Lincoln, NE Unique Number : 11029404 Diagnosed : 14 May 2024 - Wes Davis US 68508 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:

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Submitted By: Loren Michael

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