

# **OIL ANALYSIS REPORT**

Sample Rating Trend

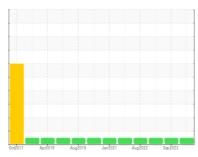
## **NORMAL**

# CONSTRUCTORS, INC

141848

Diesel Engine

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





### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

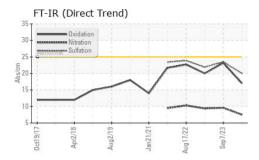
### **Fluid Condition**

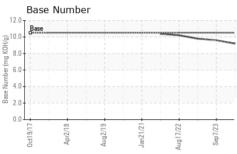
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

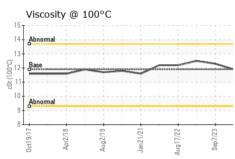
SAMPLE INFORM	MATION	method				history2
Sample Number		Client Info		SBP0005765	SBP0004590	SBP0001310
Sample Date		Client Info		11 Apr 2024	07 Sep 2023	15 Mar 2023
Machine Age	hrs	Client Info		5503	5284	4929
Oil Age	hrs	Client Info		219	355	329
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	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	>100	42	29	33
Chromium	ppm	ASTM D5185m	>20	3	2	1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	11	7	10
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	2	0	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
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		15	46	21
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		59	51	65
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		880	713	952
Calcium	ppm	ASTM D5185m		1308	1862	1545
Phosphorus	ppm	ASTM D5185m		942	845	1058
Zinc	ppm	ASTM D5185m		1187	1065	1298
Sulfur	ppm	ASTM D5185m		2983	2891	3043
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	22	14	9
Sodium	ppm	ASTM D5185m		9	4	<1
Potassium	ppm	ASTM D5185m	>20	8	<1	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.5	9.6	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	23.5	21.9
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	23.2	20.0
Base Number (BN)	mg KOH/g	<b>ASTM D2896</b>	10.5	9.2	9.6	9.8



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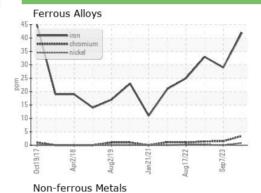




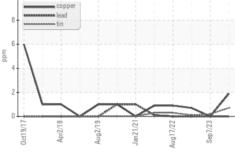


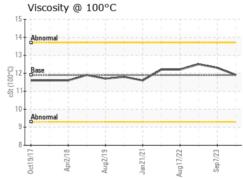
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

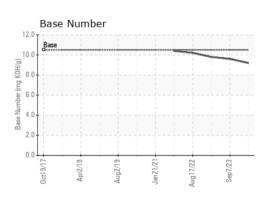
FLUID PROPER	TIES	method				history2
Visc @ 100°C	cSt	ASTM D445	11.9	11.9	12.3	12.5















Certificate 12367

Laboratory Sample No.

Lab Number : 06156640 Unique Number : 10992063

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : SBP0005765

Received **Tested** Diagnosed

: 22 Apr 2024 : 23 Apr 2024 : 23 Apr 2024 - Wes Davis

Constructors Inc. - 603659 1815 Y Street Lincoln, NE US 68508

Contact: Loren Michael LorenM@constructorslincoln.com T: (402)434-2157

Test Package : FLEET To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)