

## **OIL ANALYSIS REPORT**

## Area CONSTRUCTORS, INC Machine Id 03-0394

Front Gasoline Engine Fluid MOBIL DELVAC 1300 SUPER 10W30 (--- GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

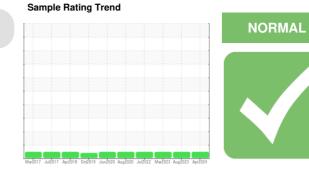
All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

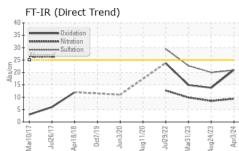
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

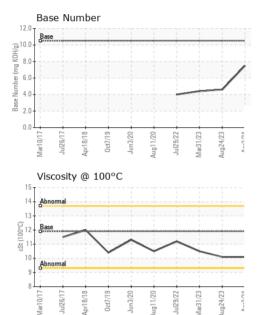


SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0006398	SBP0004612	SBP0003719
Sample Date		Client Info		03 Apr 2024	24 Aug 2023	31 Mar 2023
Machine Age	hrs	Client Info		9143	8832	8560
Oil Age	hrs	Client Info		311	272	365
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<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	>150	46	22	28
Chromium	ppm	ASTM D5185m	>20	4	2	2
Nickel	ppm	ASTM D5185m	>5	2	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>40	8	4	3
Lead	ppm	ASTM D5185m	>50	4	4	5
Copper	ppm	ASTM D5185m	>155	9	9	10
Tin	ppm	ASTM D5185m	>10	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		50	79	66
				<1	â	0
Barium	ppm	ASTM D5185m		<1	0	0
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m		<1 71	0 68	71
Molybdenum	ppm	ASTM D5185m		71	68	71
Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m		71 2	68 <1	71 1
Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		71 2 508	68 <1 502	71 1 566
Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		71 2 508 1181	68 <1 502 1150	71 1 566 1308
Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		71 2 508 1181 680	68 <1 502 1150 646	71 1 566 1308 728
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	71 2 508 1181 680 762	68 <1 502 1150 646 753	71 1 566 1308 728 879
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >30	71 2 508 1181 680 762 2792	68 <1 502 1150 646 753 3099	71 1 566 1308 728 879 3445
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		71 2 508 1181 680 762 2792 current	68 <1 502 1150 646 753 3099 history1	71 1 566 1308 728 879 3445 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>30	71 2 508 1181 680 762 2792 current 23	68 <1 502 1150 646 753 3099 history1 16	71 1 566 1308 728 879 3445 3445 history2 14
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	>30 >400	71 2 508 1181 680 762 2792 current 23 6	68 <1 502 1150 646 753 3099 history1 16 2	71 1 566 1308 728 879 3445 history2 14 2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>30 >400 >20	71 2 508 1181 680 762 2792 current 23 6 6 6	68 <1 502 1150 646 753 3099 history1 16 2 2	71 1 566 1308 728 879 3445 history2 14 2 3
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>30 >400 >20	71 2 508 1181 680 762 2792 current 23 6 6 6	68 <1 502 1150 646 753 3099 history1 16 2 2 2 history1	71 1 566 1308 728 879 3445 history2 14 2 3 3 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm	ASTM D5185m ASTM D5185m	>30 >400 >20 limit/base	71 2 508 1181 680 762 2792 current 23 6 6 6 6 current 0.2	68 <1 502 1150 646 753 3099 history1 16 2 2 2 history1 0.1	71 1 566 1308 728 879 3445 history2 14 2 3 3 history2 0.1
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m *ASTM D7844	>30 >400 >20 limit/base >20	71 2 508 1181 680 762 2792 current 23 6 6 6 6 Current 0.2 9.4	68 <1 502 1150 646 753 3099 history1 16 2 2 2 history1 0.1 8.5	71 1 566 1308 728 879 3445 history2 14 2 3 history2 0.1 9.9
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D51854 *ASTM D7844 *ASTM D7844	>30 >400 >20 limit/base >20 >30	71 2 508 1181 680 762 2792 current 23 6 6 6 6 current 0.2 9.4 20.9	68 <1 502 1150 646 753 3099 history1 16 2 2 history1 0.1 8.5 20.0	71 1 566 1308 728 879 3445 history2 14 2 3 history2 0.1 9.9 22.7

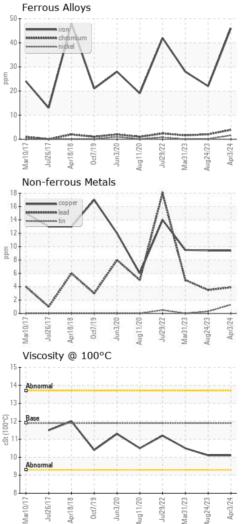


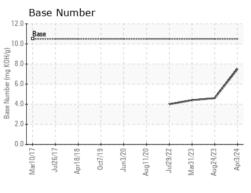
# **OIL ANALYSIS REPORT**





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	10.1	10.1	10.5
GRAPHS						





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Constructors Inc. - 603659 : SBP0006398 Sample No. Received : 09 Apr 2024 1815 Y Street Lab Number : 06143524 Tested : 10 Apr 2024 Lincoln, NE Unique Number : 10968332 Diagnosed : 10 Apr 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 F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: Loren Michael

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