

OIL ANALYSIS REPORT

Area **CONSTRUCTORS, INC** 12-1251

Diesel Engine Fluid

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

Recommendation

Resample at the next service interval to monitor.

Wear

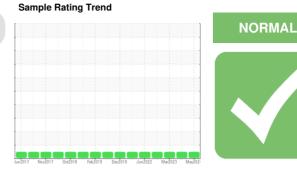
All component wear rates are normal.

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.

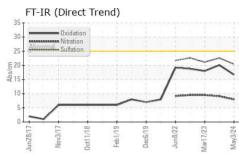


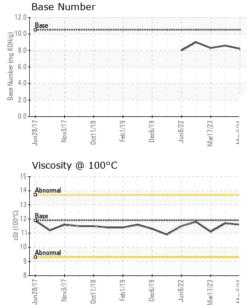


SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0007190	SBP0004523	SBP0003793
Sample Date		Client Info		03 May 2024	07 Jul 2023	17 Mar 2023
Machine Age	hrs	Client Info		23397	22992	22405
Oil Age	hrs	Client Info		405	587	707
Oil Changed		Client Info		Changed	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	26	10	12
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	<1	1
Lead	ppm	ASTM D5185m	>40	4	13	10
Copper	ppm	ASTM D5185m	>330	5	3	4
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		10	25	10
Barium	ppm	ASTM D5185m		0	1	0
Molybdenum	ppm	ASTM D5185m		57	54	58
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		820	829	894
Calcium	ppm	ASTM D5185m		1152	1538	1217
Phosphorus	ppm	ASTM D5185m		975	972	1017
Zinc	ppm	ASTM D5185m		1166	1232	1239
Sulfur	ppm	ASTM D5185m		3582	3505	3160
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	12	4	3
	ppm ppm		>25		4	3
Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		12 5 5		
Sodium	ppm	ASTM D5185m		5	5	4
Sodium Potassium	ppm	ASTM D5185m ASTM D5185m	>20	5 5	5 3	4
Sodium Potassium INFRA-RED	ppm ppm	ASTM D5185m ASTM D5185m method *ASTM D7844	>20 limit/base	5 5 current 0.3	5 3 history1 0.5	4 4 history2
Sodium Potassium INFRA-RED Soot %	ppm ppm %	ASTM D5185m ASTM D5185m method *ASTM D7844	>20 limit/base >3	5 5 current	5 3 history1	4 4 history2 0.4
Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	>20 limit/base >3 >20	5 5 current 0.3 8.0	5 3 history1 0.5 9.1	4 4 history2 0.4 9.5
Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 limit/base >3 >20 >30	5 5 current 0.3 8.0 20.4	5 3 history1 0.5 9.1 22.6	4 4 0.4 9.5 21.1

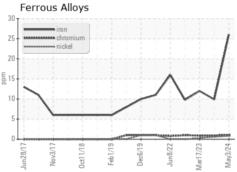


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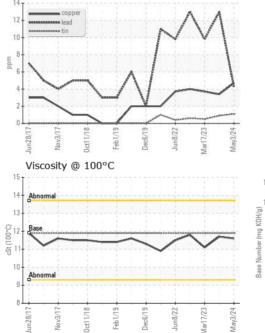


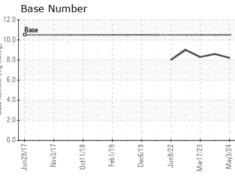


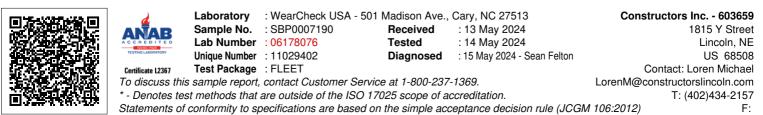
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	11.6	11.7	11.1
CDADUS						











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Submitted By: Loren Michael

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