

OIL ANALYSIS REPORT

Area CONSTRUCTORS, INC Machine Id 090778 Component

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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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. Confirm oil type.

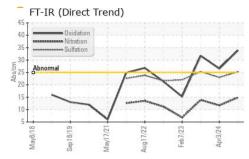
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AL)		May2018	Sep2019 May2021	Aug2022 Feb2023 Au	or2024	
SAMPLE INFORM	ΛΑΤΙΟΝ	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0006787	SBP0005754	SBP0004774
Sample Date		Client Info		13 Jun 2024	03 Apr 2024	19 Jul 2023
Machine Age	hrs	Client Info		12165	11457	11098
Oil Age	hrs	Client Info		708	359	760
Dil Changed	1110	Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	ATTENTION
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
ron	ppm	ASTM D5185m	>100	17	16	17
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	<1	1	0
Titanium	ppm	ASTM D5185m		<1	1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	3	2
ead	ppm	ASTM D5185m	>40	4	1	0
Copper	ppm	ASTM D5185m	>330	1	2	1
Γin	ppm	ASTM D5185m	>15	<1	1	0
/anadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		12	44	39
Barium	ppm	ASTM D5185m		0	<1	0
Nolybdenum	ppm	ASTM D5185m		57	40	46
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		914	557	642
Calcium	ppm	ASTM D5185m		1398	1678	1730
Phosphorus	ppm	ASTM D5185m		1037	868	812
Zinc	ppm	ASTM D5185m		1317	1020	1044
Sulfur	ppm	ASTM D5185m		3505	2885	2974
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	6	4
Sodium	ppm	ASTM D5185m		4	4	4
Potassium	ppm	ASTM D5185m	>20	4	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	14.9	11.7	13.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.3	23.0	25.3
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	33.9	26.5	31.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	6.6	8.1	8.1
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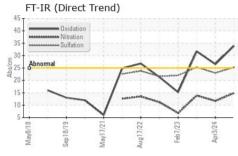
Sample Rating Trend

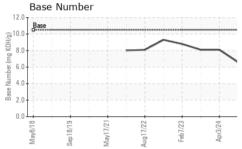
VISCOSITY



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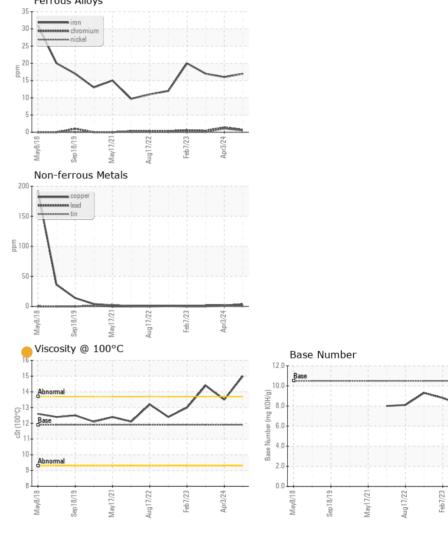


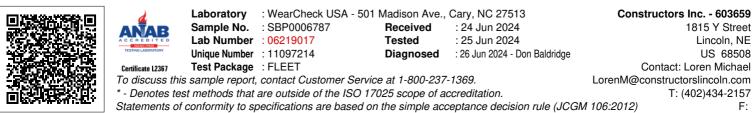




VISUAL						history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	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
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	11.9	15.0	13.5	14.4
GRAPHS						

Ferrous Alloys





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Submitted By: Loren Michael

Page 2 of 2

Apr3/24 -