

OIL ANALYSIS REPORT

Area **CONSTRUCTORS, INC** 030347

Diesel Engine Fluid

MOBIL DELVAC 1300 SUPER15W40 (--- 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.

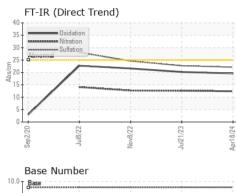
AL)		Sep2020	Jul2022	Nov2022 Jul2023	Apr2024	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0005772	SBP0004765	SBP0001354
Sample Date		Client Info		18 Apr 2024	21 Jul 2023	08 Nov 2022
Machine Age	hrs	Client Info		3678	3142	2525
Oil Age	hrs	Client Info		536	617	526
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	2 .1	<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	>90	45	75	60
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	11	15	8
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	4	2	5
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m	210	<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	3	6
Barium	ppm	ASTM D5185m	0	_ <1	0	0
Molybdenum	ppm	ASTM D5185m	0	61	60	51
Manganese	ppm	ASTM D5185m	-	<1	1	<1
Magnesium	ppm	ASTM D5185m	0	940	981	879
Calcium	ppm	ASTM D5185m		1098	1172	1079
Phosphorus	ppm	ASTM D5185m		1000	1003	945
Zinc	ppm	ASTM D5185m		1274	1260	1156
Sulfur	ppm	ASTM D5185m		3231	3495	3335
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	5	6
Sodium	ppm	ASTM D5185m		3	3	3
Potassium	ppm	ASTM D5185m	>20	7	9	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	1	1.2	1
Nitration	Abs/cm	*ASTM D7624	>20	12.4	12.6	12.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	22.7	24.6
FLUID DEGRADA	TIO <u>N</u>	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.6	20.2	21.6
Base Number (BN)	mg KOH/g	ASTM D7414 ASTM D2896	>25 9.4	6.3	6.5	7.9
Dase NUMBER (DIN)	ing NOR/g	NO TWI D2030	0.4	0.5	0.5	1.5

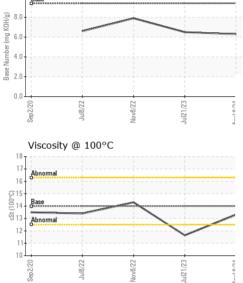
Sample Rating Trend

NORMAL



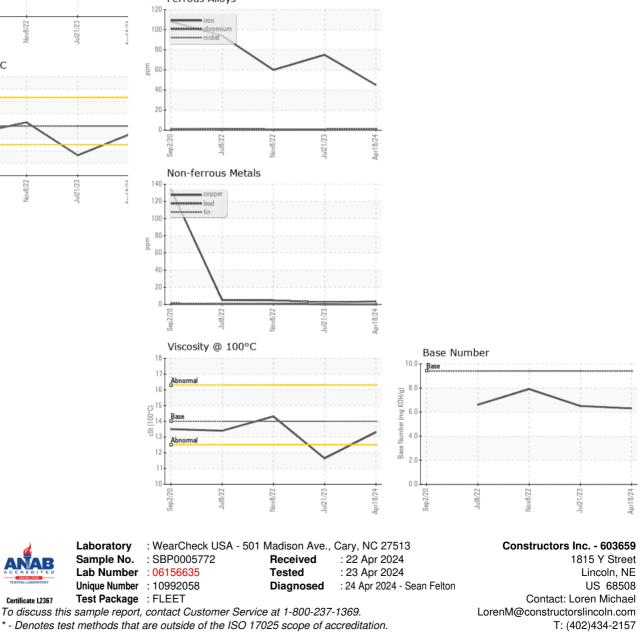
OIL ANALYSIS REPORT





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	14	13.3	▲ 11.64	14.3
CRADUS						

Ferrous Alloys



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

Certificate 12367

F: