

### **OIL ANALYSIS REPORT**



# STEIGER 4

#### Component **Diesel Engine** Elui ALPHA MEGA MOLY 15W40 (11 GAL)

#### DIAGNOSIS

#### Recommendation

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

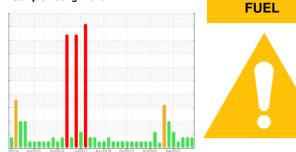
All component wear rates are normal.

#### Contamination

There is a moderate amount of fuel present in the oil.

#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid.

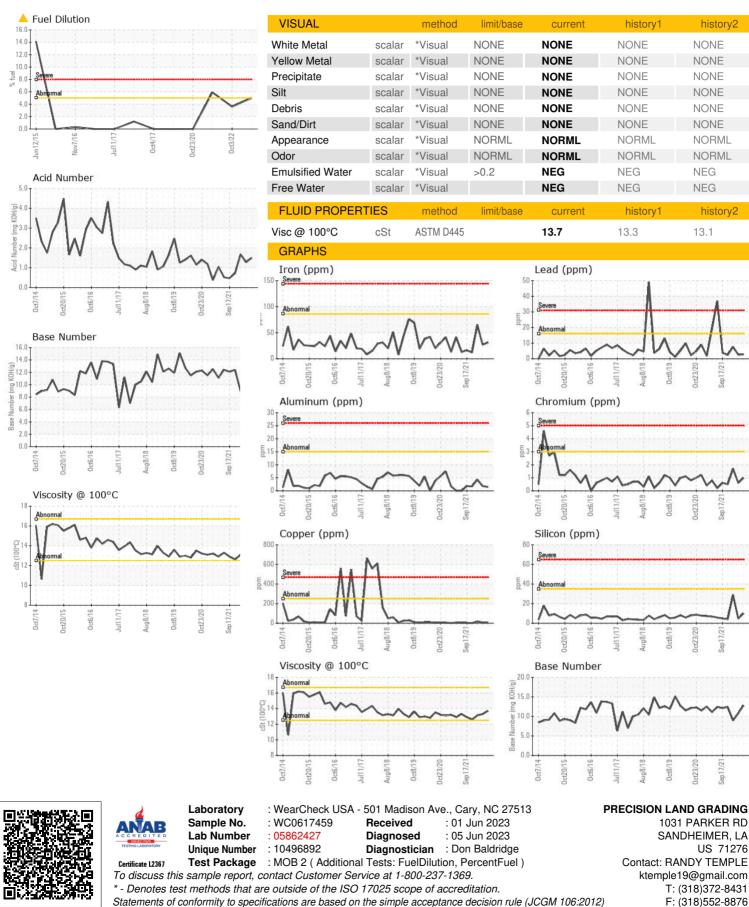


SAMPLE INFORM		method	limit/base	Augzota dezota dezozo	history1	history2
	ATION		IIIIIVDase	current	history1	
Sample Number		Client Info		WC0617459	WC0617455	WC0617454
Sample Date		Client Info		11 May 2023	03 Oct 2022	29 Jul 2022
Machine Age	hrs	Client Info		3051	2573	2384
Oil Age	hrs	Client Info		223	189	469
Oil Changed		Client Info		Changed	Oil Added	Changed
Sample Status				ABNORMAL	MARGINAL	ABNORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	0.0
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>86	31	27	65
Chromium	ppm	ASTM D5185m		1	<1	2
Nickel	ppm	ASTM D5185m	>3	0	0	2
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m		2	2	4
Lead	ppm	ASTM D5185m	>16	3	3	8
Copper	ppm	ASTM D5185m		7	7	18
Tin		ASTM D5185m	>2	, <1	0	4
Antimony	ppm ppm	ASTM D5185m	26	<1 		4
Vanadium		ASTM D5185m		 <1	0	0
	ppm			<1	0	0
Cadmium	ppm	ASTM D5185m				-
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2	0	6
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		138	5	37
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		16	14	19
Calcium	ppm	ASTM D5185m		4605	4132	4070
Phosphorus	ppm	ASTM D5185m		1190	911	911
Zinc	ppm	ASTM D5185m		1314	1026	1077
Sulfur	ppm	ASTM D5185m		5717	4594	4588
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	10	5	29
Sodium	ppm	ASTM D5185m		8	10	10
Potassium	ppm	ASTM D5185m	>20	3	0	7
Fuel	%	ASTM D3524	>5	<b>6</b> .0	▲ 3.6	▲ 5.9
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	14.4	12.8	15.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	43.2	42.9	45.8
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/1mm	*ASTM D7414	>25	47.1	47.3	50.0
	Abs/.1mm	*ASTM D7414 ASTM D8045	>25	47.1	47.3	50.0 1.67
Oxidation Acid Number (AN) Base Number (BN)	Abs/.1mm mg KOH/g mg KOH/g	*ASTM D7414 ASTM D8045 ASTM D2896	>25	47.1 1.50 12.81	47.3 1.28 10.8	50.0 1.67 8.93

Submitted By: LINFERD BECKER



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Page 2 of 2

history2

history2

ep17/2

e017/2

Sep17/21

US 71276