

OIL ANALYSIS REPORT



current

history1

STEIGER 2

Component **Diesel Engine**

ALPHA MEGA MOLY PREMIUM 15W40 (9 GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

A Wear

Cylinder, crank, or cam shaft wear is indicated.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

Fluid Condition

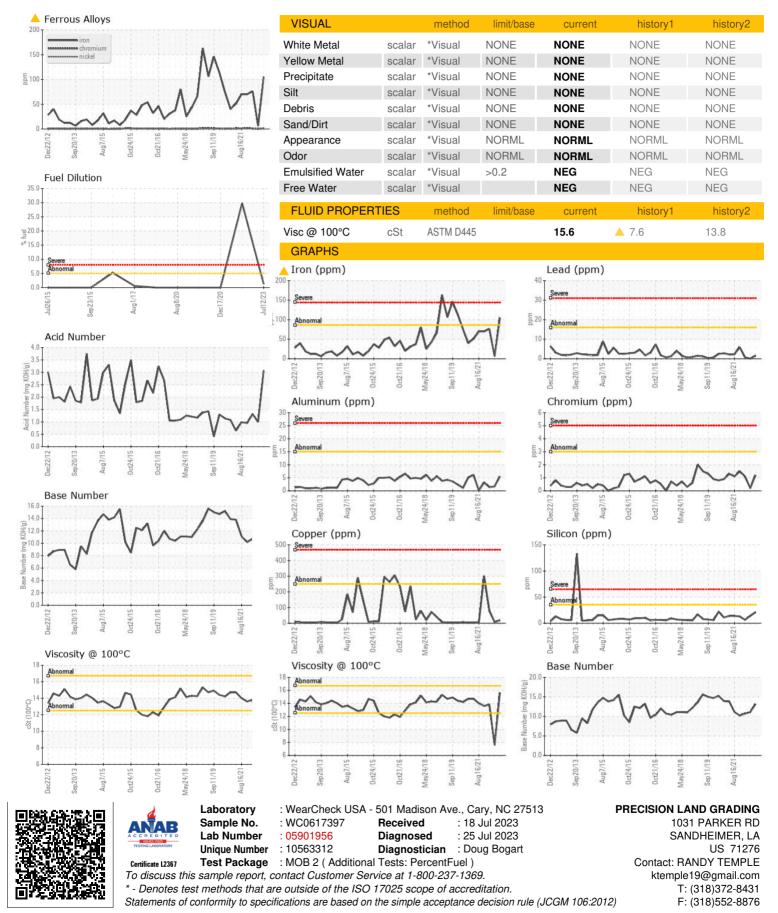
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFURI	ATION	method	iimi/base	current	riistory i	nistory2
Sample Number		Client Info		WC0617397	WC0617396	WC0617458
Sample Date		Client Info		12 Jul 2023	11 Mar 2023	29 Dec 2022
Machine Age	hrs	Client Info		1774	11257	11224
Oil Age	hrs	Client Info		467	33	436
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ABNORMAL	SEVERE	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>86	105	6	76
Chromium	ppm	ASTM D5185m	>3	1	<1	1
Nickel	ppm	ASTM D5185m	>3	- <1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		6	2	1
Lead	ppm	ASTM D5185m	>15	2	<1	<1
Copper	ppm	ASTM D5185m		2 18	6	81
Tin		ASTM D5185m	>250	2	<1	0
Vanadium	ppm	ASTM D5185m	>2	0	0	0
	ppm				0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		186	95	7
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		13	8	15
Calcium	ppm	ASTM D5185m		5073	3385	4243
Phosphorus	ppm	ASTM D5185m		1244	866	896
Zinc	ppm	ASTM D5185m		1382	916	1073
Sulfur	ppm	ASTM D5185m		5283	3615	4300
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	21	14	6
Sodium	ppm	ASTM D5185m		5	0	4
Potassium	ppm	ASTM D5185m	>20	9	3	1
Fuel	%	ASTM D3524	>5	1.3	29.8	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	2.1	0.1	1.4
Nitration	Abs/cm	*ASTM D7624	>20	13.6	7.1	12.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	45.4	28.1	41.7
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	44.8	28.4	43.3
Acid Number (AN)	mg KOH/g	ASTM D8045	-	3.071	1.00	1.31
Base Number (BN)	mg KOH/g	ASTM D2896		13.16	11.11	10.69

limit/base



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Contact/Location: RANDY TEMPLE - PRESANLA