

OIL ANALYSIS REPORT

Sample Rating Trend FUEL

LOAD KING STINGER 340-94 TC0027 (S/N 200027)

Diesel Engine

DIESEL ENGINE OIL 10W40 (6 GAL)

DIAGNOSIS

A Recommendation

We advise that you check the fuel injection system. 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.

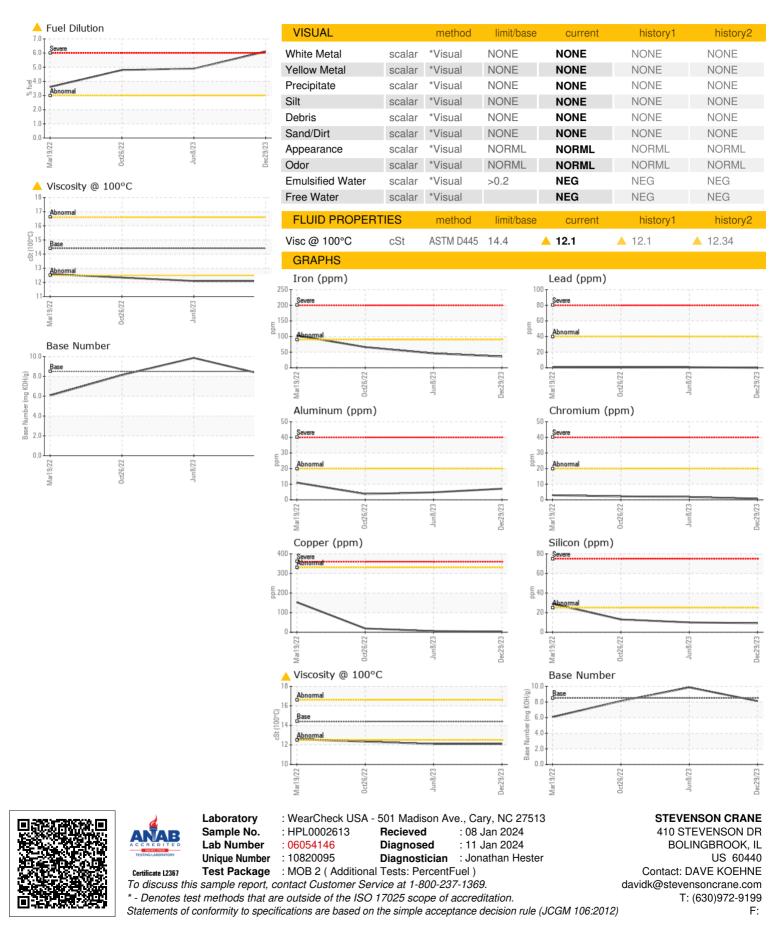
Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		HPL0002613	HPL0003241	HPL0001715
Sample Date		Client Info		29 Dec 2023	08 Jun 2023	26 Oct 2022
Machine Age	hrs	Client Info		1470	3148	2044
Oil Age	hrs	Client Info		0	772	760
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
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	36	46	66
Chromium	ppm	ASTM D5185m	>20	<1	2	2
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	7	5	4
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	3	6	19
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	0	0	4
Barium	ppm	ASTM D5185m	10	<1	0	0
Molybdenum	ppm	ASTM D5185m	100	566	554	463
Manganese	ppm	ASTM D5185m		<1	1	2
Magnesium	ppm	ASTM D5185m	450	975	980	882
Calcium	ppm	ASTM D5185m	3000	2404	2605	2316
Phosphorus	ppm	ASTM D5185m	1150	1015	972	828
Zinc	ppm	ASTM D5185m	1350	1216	1246	1151
Sulfur	ppm	ASTM D5185m	4250	7415	8602	7231
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	10	13
Sodium	ppm	ASTM D5185m		3	3	3
Potassium	ppm	ASTM D5185m	>20	1	1	7
Fuel	%	ASTM D3524	>3.0	<mark>▲</mark> 6.1	4 .9	4.8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.9	0.9	1.1
Nitration	Abs/cm	*ASTM D7624		16.9	17.1	18.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	41.9	43.0	46.3
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	46.7	47.0	50.5
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.12	9.86	8.13



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Contact/Location: DAVE KOEHNE - STEBOL