

OIL ANALYSIS REPORT

Sample Rating Trend



Area OKLAHOMA 3592

3592 Component Diesel Engine Fluid MYSTIK JT-8 SYN SUPER HD 15W40 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Test for glycol is negative. No other contaminants were detected in the oil.

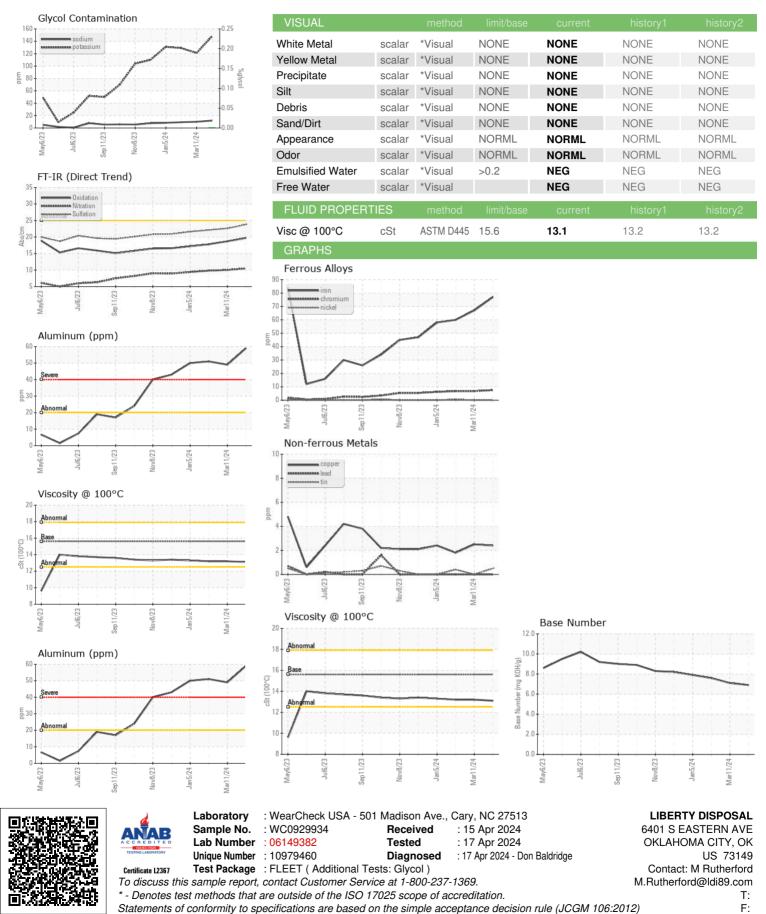
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0929934	WC0899612	WC0899608
Sample Date		Client Info		09 Apr 2024	11 Mar 2024	05 Feb 2024
Machine Age	hrs	Client Info		2218	2027	1854
Oil Age	hrs	Client Info		1895	1704	1606
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
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
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	77	67	60
Chromium	ppm	ASTM D5185m	>20	8	7	7
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	59	49	51
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	2	2	2
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		9	<1	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		65	61	60
Manganese	ppm	ASTM D5185m		2	1	1
Magnesium	ppm	ASTM D5185m		1083	1026	973
Calcium	ppm	ASTM D5185m		1204	1161	1073
Phosphorus	ppm	ASTM D5185m		1153	1056	1064
Zinc	ppm	ASTM D5185m		1420	1325	1320
Sulfur	ppm	ASTM D5185m		3539	3476	3018
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4	5
Sodium	ppm	ASTM D5185m		12	10	9
Potassium	ppm	ASTM D5185m	>20	148	121	129
Glycol	%	*ASTM D2982		0.0	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1	0.9	0.8
Nituration	A la a / a vaa	*ASTM D7624	>20	10.5	10.0	9.8
Nitration	Abs/cm					
Sulfation	Abs/cm Abs/.1mm	*ASTM D7415	>30	23.8	22.6	22.1
	Abs/.1mm		>30 limit/base		22.6 history1	22.1 history2
Sulfation	Abs/.1mm	*ASTM D7415	limit/base	23.8		
Sulfation	Abs/.1mm	*ASTM D7415 method	limit/base	23.8 current	history1	history2



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Contact/Location: M Rutherford - SEAOKL