

OIL ANALYSIS REPORT

OKLAHOMA 3592

Diesel Engine

MYSTIK JT-8 SYN SUPER HD 15W40 (--- GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

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

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. No other contaminants were detected in the oil.

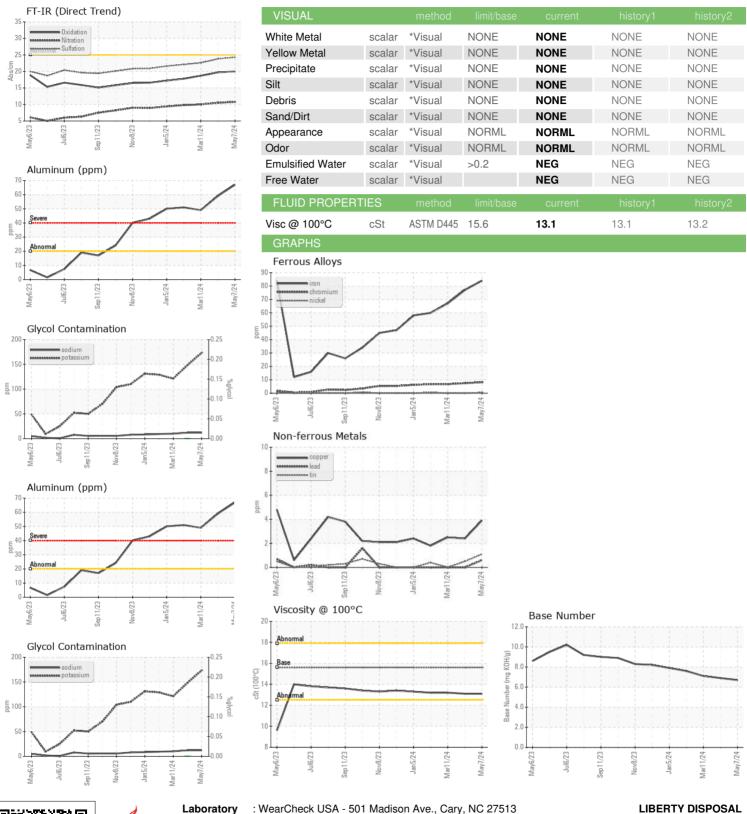
Fluid Condition

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.

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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0929929	WC0929934	WC0899612
Sample Date		Client Info		07 May 2024	09 Apr 2024	11 Mar 2024
Machine Age	hrs	Client Info		2391	2218	2027
Oil Age	hrs	Client Info		2068	1895	1704
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	Ν	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	84	77	67
Chromium	ppm	ASTM D5185m	>20	8	8	7
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	67	59	49
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	4	2	2
Tin	ppm	ASTM D5185m	>15	1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		3	9	<1
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		63	65	61
Manganese	ppm	ASTM D5185m		2	2	1
Magnesium	ppm	ASTM D5185m		963	1083	1026
Calcium	ppm	ASTM D5185m		1150	1204	1161
Phosphorus	ppm	ASTM D5185m		1045	1153	1056
Zinc	ppm	ASTM D5185m		1294	1420	1325
Sulfur	ppm	ASTM D5185m		3311	3539	3476
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	5	4
Sodium	ppm	ASTM D5185m		12	12	10
Potassium	ppm	ASTM D5185m	>20	173	148	121
Glycol	%	*ASTM D2982		NEG	0.0	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.1	1	0.9
Nitration	Abs/cm	*ASTM D7624	>20	10.8	10.5	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.3	23.8	22.6
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.0	19.7	18.7
Base Number (BN)	mg KOH/g	ASTM D2896		6.7	6.9	7.1
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Laboratory Sample No.

: WC0929929 Lab Number : 06178211 Unique Number: 11029537

Received **Tested**

: 13 May 2024 Diagnosed

: 15 May 2024

: 15 May 2024 - Sean Felton

Test Package : FLEET (Additional Tests: Glycol)

Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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