

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Area OKLAHOMA 5568

Component Diesel Engine

Fluid

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

DIAGNOSIS

A Recommendation

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

📥 Wear

Cylinder, crank, or cam shaft wear is indicated.

Contamination

Elevated aluminum (AI) 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.

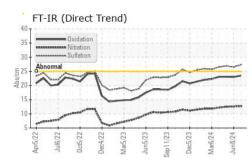
Fluid Condition

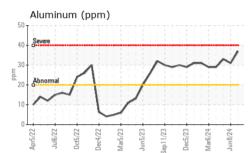
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

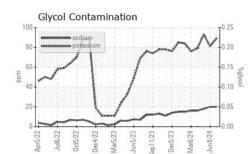
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0899585	WC0929927	WC0929922
Sample Date		Client Info		08 Jul 2024	08 Jun 2024	06 May 2024
Machine Age	hrs	Client Info		4878	4711	4594
Oil Age	hrs	Client Info		3371	3204	3087
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATION		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	1 37	74	74
Chromium	ppm	ASTM D5185m	>20	10	4	4
	ppm	ASTM D5185m	>4	5	0	<1
	ppm	ASTM D5185m		<1	<1	<1
	ppm	ASTM D5185m	>3	0	0	0
	ppm		>20	37	31	33
	ppm	ASTM D5185m	>40	2	1	<1
	ppm		>330	- 77	4	3
	ppm	ASTM D5185m	>15	<1	0	1
	ppm	ASTM D5185m	210	<1	<1	<1
	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
_	nom	ASTM D5185m		0	0	0
	ppm	ASTM D5185m		0	0	0
	ppm	ASTM D5185m		59	58	58
	ppm	ASTM D5185m		2	1	1
	ppm			_		
•	ppm	ASTM D5185m		954	1026	925
Calcium		AOTH DEADE		4404		1005
	ppm	ASTM D5185m		1194	1200	1095
Phosphorus	ppm	ASTM D5185m		1078	1082	1007
Phosphorus Zinc	ppm ppm	ASTM D5185m ASTM D5185m		1078 1329	1082 1338	1007 1248
Phosphorus Zinc	ppm	ASTM D5185m		1078	1082	1007
Phosphorus Zinc	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base	1078 1329	1082 1338	1007 1248
Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	1078 1329 2600	1082 1338 3355	1007 1248 3121
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method		1078 1329 2600 current	1082 1338 3355 history1	1007 1248 3121 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m		1078 1329 2600 current 14	1082 1338 3355 history1 6	1007 1248 3121 history2 6
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	>25	1078 1329 2600 current 14 20	1082 1338 3355 history1 6 20	1007 1248 3121 history2 6 18
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	>25	1078 1329 2600 current 14 20 89	1082 1338 3355 history1 6 20 81	1007 1248 3121 history2 6 18 93 NEG
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Glycol INFRA-RED	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D2982	>25 >20	1078 1329 2600 current 14 20 89 NEG	1082 1338 3355 history1 6 20 81 NEG	1007 1248 3121 history2 6 18 93 NEG
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Glycol INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D2982 method	>25 >20 limit/base	1078 1329 2600 current 14 20 89 NEG current	1082 1338 3355 history1 6 20 81 NEG history1	1007 1248 3121 history2 6 18 93 NEG history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D2982 method *ASTM D7844	>25 >20 limit/base >3	1078 1329 2600 current 14 20 89 NEG Current 1.2	1082 1338 3355 history1 6 20 81 NEG history1 1.2	1007 1248 3121 history2 6 18 93 NEG history2 1.2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D2982 method *ASTM D7844 *ASTM D7624	>25 >20 limit/base >3 >20	1078 1329 2600 current 14 20 89 NEG NEG current 1.2 1.2	1082 1338 3355 history1 6 20 81 NEG history1 1.2 1.2 12.6	1007 1248 3121 history2 6 18 93 NEG history2 1.2 1.2 12.5 26.9
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration Sulfation FLUID DEGRADAT	ppm ppm ppm ppm ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D2982 method *ASTM D7844 *ASTM D7844 *ASTM D7624	>25 >20 limit/base >3 >20 >30	1078 1329 2600 current 14 20 89 NEG current 1.2 12.7 27.3	1082 1338 3355 history1 6 20 81 NEG history1 1.2 1.2 12.6 26.5	1007 1248 3121 history2 6 18 93 NEG history2 1.2 1.2 12.5

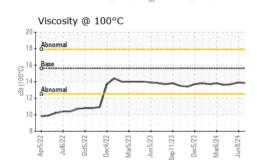


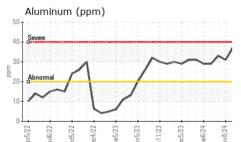
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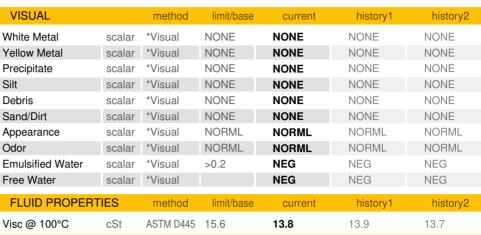






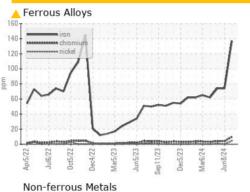


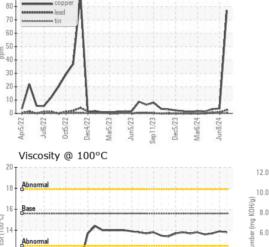


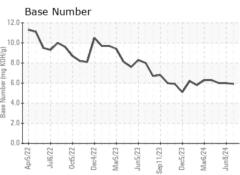


GRAPHS

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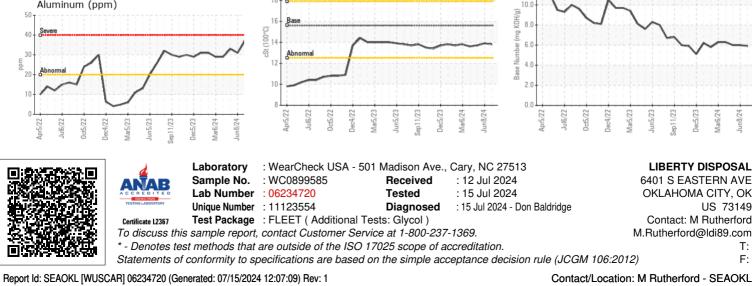






LIBERTY DISPOSAL

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