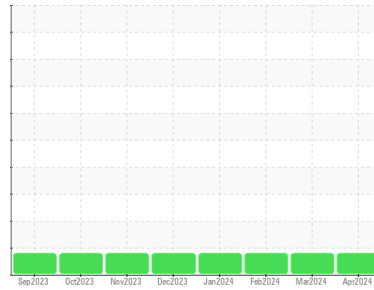




OIL ANALYSIS REPORT

Sample Rating Trend



Area
OKLAHOMA
 Machine Id
7269
 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**
Valve wear is indicated.
- Contamination**
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 condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0929931	WC0899615	WC0899607
Sample Date	Client Info			09 Apr 2024	06 Mar 2024	05 Feb 2024
Machine Age	hrs	Client Info		5533	5326	5171
Oil Age	hrs	Client Info		5233	5028	4821
Oil Changed	Client Info			Not Chngd	Not Chngd	Not Chngd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

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
Glycol	WC Method			NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	75	78	72
Chromium	ppm	ASTM D5185m	>20	2	2	2
Nickel	ppm	ASTM D5185m	>4	▲ 10	▲ 12	▲ 12
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	4	3	4
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	10	11	11
Tin	ppm	ASTM D5185m	>15	3	2	3
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		3	2	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		45	43	40
Manganese	ppm	ASTM D5185m		2	1	2
Magnesium	ppm	ASTM D5185m		1008	962	895
Calcium	ppm	ASTM D5185m		1418	1448	1322
Phosphorus	ppm	ASTM D5185m		1249	1159	1141
Zinc	ppm	ASTM D5185m		1507	1426	1410
Sulfur	ppm	ASTM D5185m		3128	3049	2558

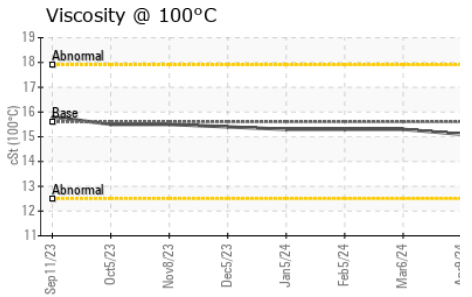
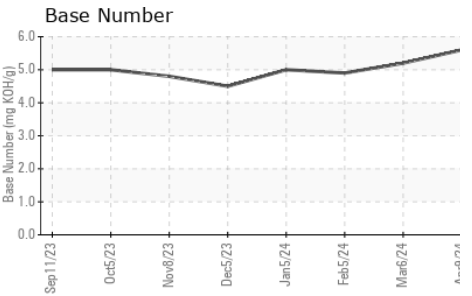
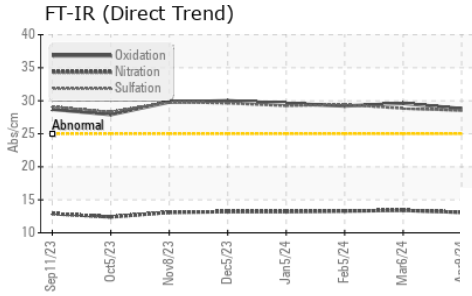
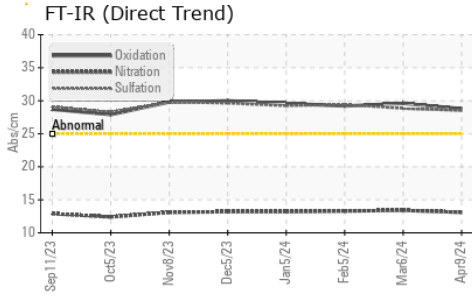
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	9	10
Sodium	ppm	ASTM D5185m		25	24	24
Potassium	ppm	ASTM D5185m	>20	6	6	7

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.2	1.2	1.2
Nitration	Abs/cm	*ASTM D7624	>20	13.1	13.4	13.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.5	28.8	29.4

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	28.8	29.6	29.2
Base Number (BN)	mg KOH/g	ASTM D2896		5.6	5.2	4.9



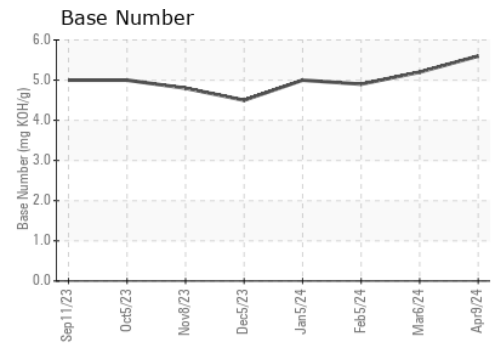
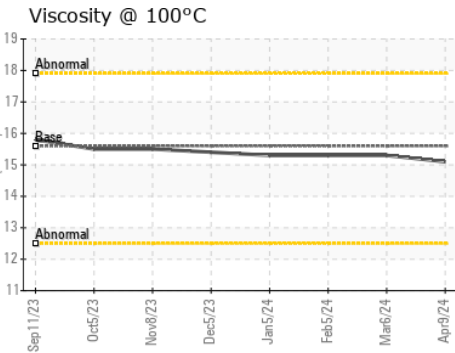
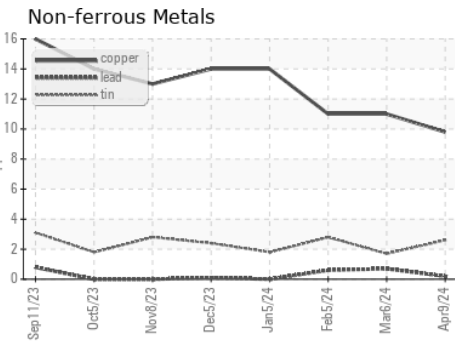
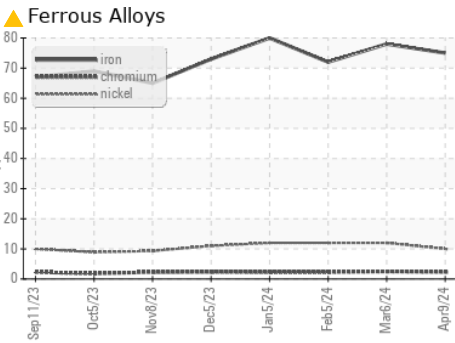
OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.6	15.1	15.3

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0929931 **Received** : 15 Apr 2024
Lab Number : 06149393 **Tested** : 16 Apr 2024
Unique Number : 10979471 **Diagnosed** : 17 Apr 2024 - Don Baldrige
Test Package : FLEET

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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