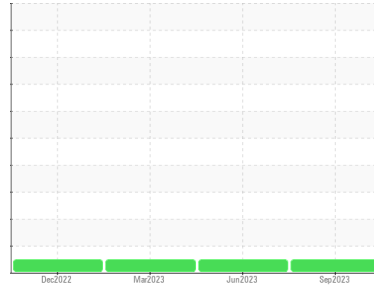




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id

2726

Component

Diesel Engine

Fluid

VALVOLINE SYNPOWER MOTOR OIL 5W40 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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		WC0766464	WC0766463	WC0766471
Sample Date	Client Info		23 Sep 2023	09 Jun 2023	19 Mar 2023
Machine Age	mls	Client Info	723572	695747	669049
Oil Age	mls	Client Info	27825	26698	29360
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	<1.0
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	16	15	19
Chromium	ppm	ASTM D5185m >20	<1	<1	2
Nickel	ppm	ASTM D5185m >4	<1	0	<1
Titanium	ppm	ASTM D5185m	0	0	<1
Silver	ppm	ASTM D5185m >3	0	0	<1
Aluminum	ppm	ASTM D5185m >20	6	<1	5
Lead	ppm	ASTM D5185m >40	4	3	3
Copper	ppm	ASTM D5185m >330	<1	<1	2
Tin	ppm	ASTM D5185m >15	<1	<1	1
Vanadium	ppm	ASTM D5185m	0	<1	1
Cadmium	ppm	ASTM D5185m	0	0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	16	19	20
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	66	61	62
Manganese	ppm	ASTM D5185m	<1	0	2
Magnesium	ppm	ASTM D5185m	997	1109	1048
Calcium	ppm	ASTM D5185m 1930	787	864	822
Phosphorus	ppm	ASTM D5185m 770	937	1010	896
Zinc	ppm	ASTM D5185m 840	1191	1284	1213
Sulfur	ppm	ASTM D5185m	3569	4224	3522

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	5	4	6
Sodium	ppm	ASTM D5185m	8	11	13
Potassium	ppm	ASTM D5185m >20	2	2	4

INFRA-RED

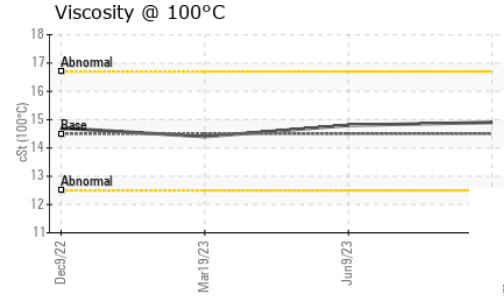
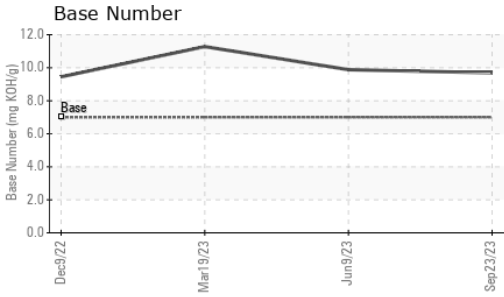
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.7	0.7	0.7
Nitration	Abs/cm	*ASTM D7624 >20	9.9	10.2	9.9
Sulfation	Abs/.1mm	*ASTM D7415 >30	21.5	22.7	20.4

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	18.9	19.8	18.4
Base Number (BN)	mg KOH/g	ASTM D2896 7	9.69	9.88	11.28



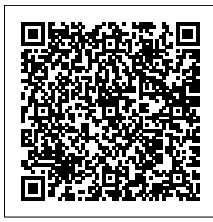
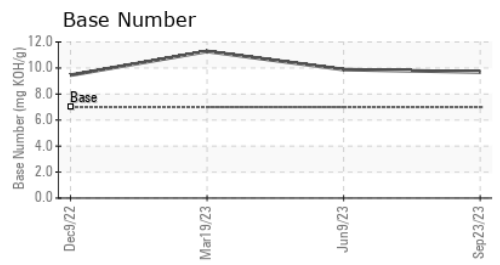
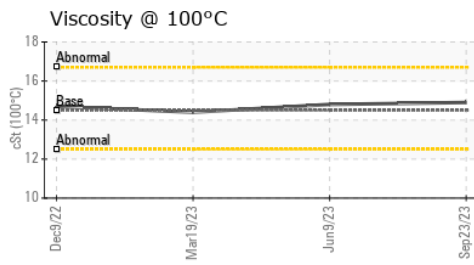
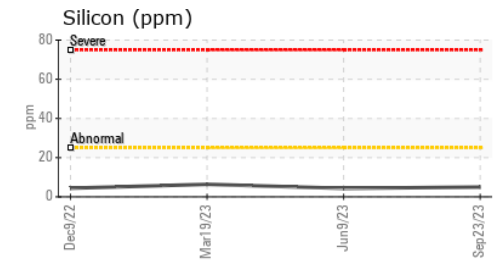
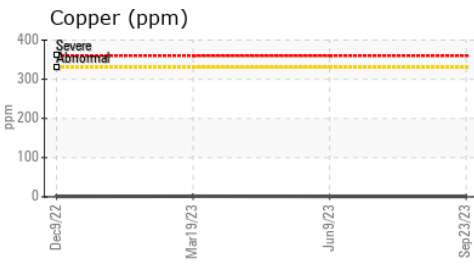
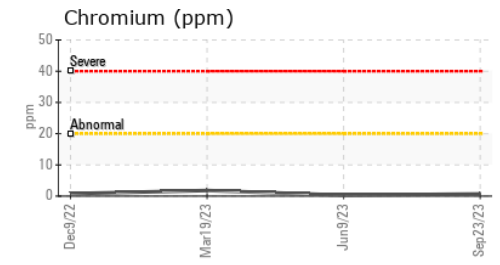
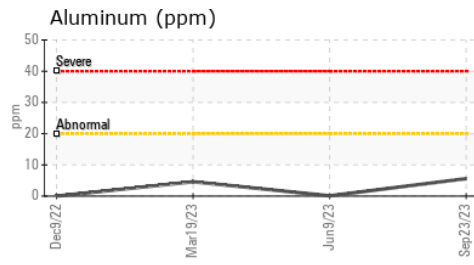
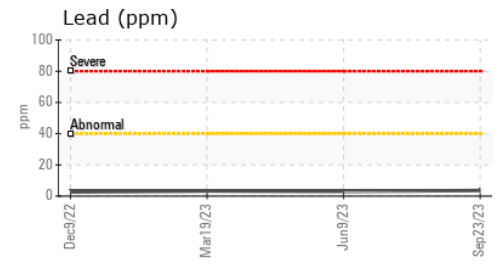
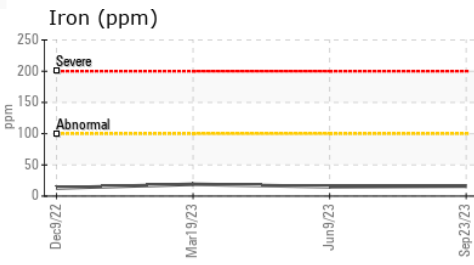
OIL ANALYSIS REPORT



VISUAL	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	14.5	14.9	14.8	14.4

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0766464 **Received** : 13 Oct 2023
Lab Number : 05978428 **Diagnosed** : 17 Oct 2023
Unique Number : 10695723 **Diagnostician** : Angela Borella
Test Package : MOB 2

KG&P TRUCKING
 999 TOWNSHIP RD 133
 WEST SALEM, OH
 US 44287
 Contact: KEVIN WHITE
 kevinwhite999@gmail.com
 T: (330)466-6461
 F:

Certificate L2367
 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)