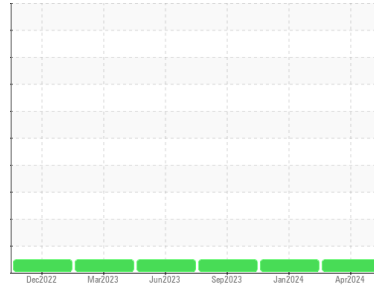




OIL ANALYSIS REPORT

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. Please specify the component make and model with your next sample.

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			WC0766466	WC0766465	WC0766464
Sample Date	Client Info			04 Apr 2024	14 Jan 2024	23 Sep 2023
Machine Age	mls	Client Info		779326	752007	723572
Oil Age	mls	Client Info		27319	28435	27825
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
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	23	19	16
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	7	4	6
Lead	ppm	ASTM D5185m	>40	2	1	4
Copper	ppm	ASTM D5185m	>330	1	<1	<1
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		26	19	16
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		62	65	66
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		1029	1118	997
Calcium	ppm	ASTM D5185m	1930	960	814	787
Phosphorus	ppm	ASTM D5185m	770	1015	890	937
Zinc	ppm	ASTM D5185m	840	1230	1252	1191
Sulfur	ppm	ASTM D5185m		3909	3019	3569

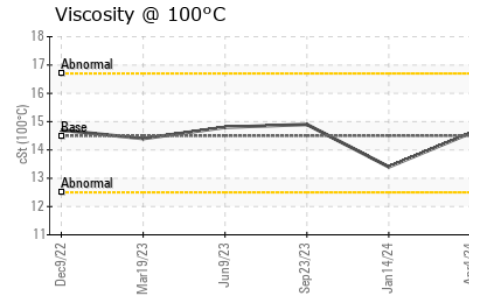
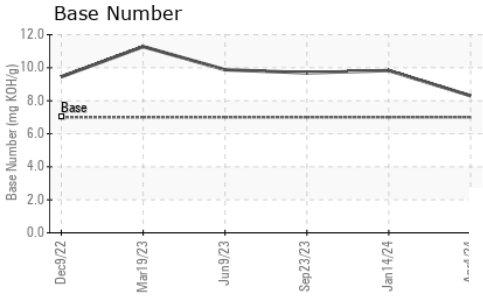
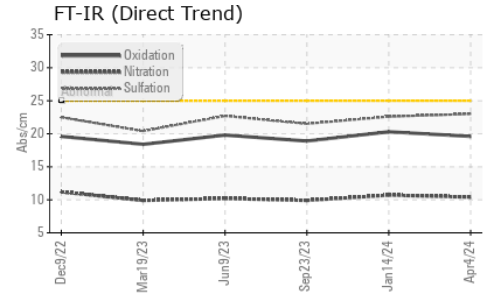
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	8	5
Sodium	ppm	ASTM D5185m		6	10	8
Potassium	ppm	ASTM D5185m	>20	<1	2	2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1	0.8	0.7
Nitration	Abs/cm	*ASTM D7624	>20	10.4	10.7	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	22.6	21.5

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.6	20.3	18.9
Base Number (BN)	mg KOH/g	ASTM D2896	7	8.30	9.83	9.69



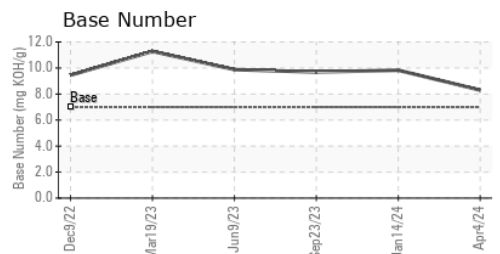
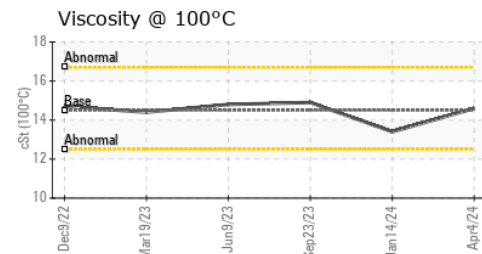
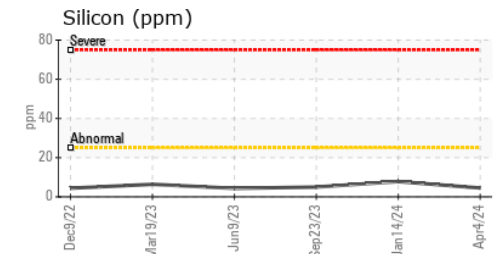
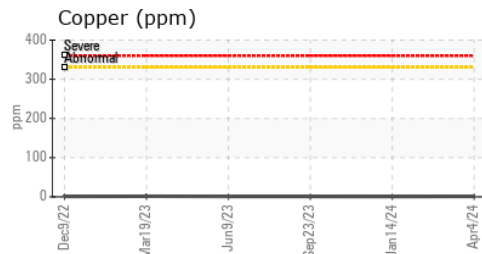
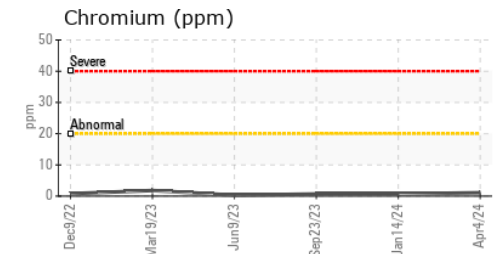
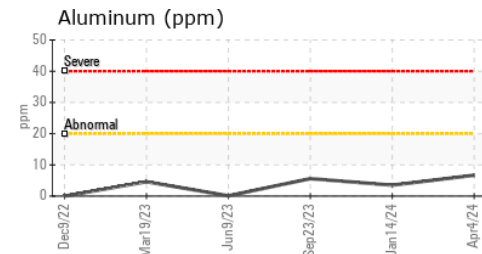
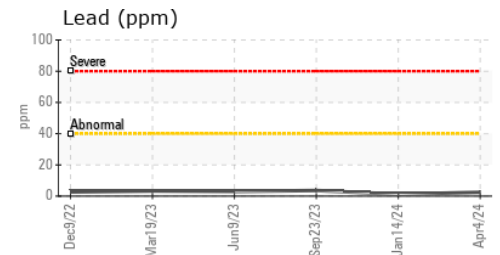
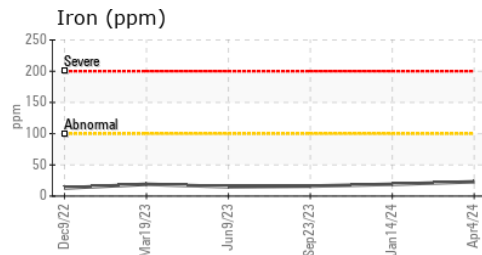
OIL ANALYSIS REPORT



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	14.6	13.4	14.9

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0766466 **Received** : 18 Apr 2024
Lab Number : **06153337** **Tested** : 22 Apr 2024
Unique Number : 10983415 **Diagnosed** : 22 Apr 2024 - Wes Davis
Test Package : MOB 2

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

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)