



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
156271
Component
Diesel Engine
Fluid
PRIM ROSE SYN B 10W30 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0030680	DC0029745	DC0022522
Sample Date		Client Info		18 Dec 2023	11 Sep 2023	15 May 2023
Machine Age	mls	Client Info		450974	414768	510087
Oil Age	mls	Client Info		80887	44681	81808
Filter Age	mls	Client Info		80887	44681	81808
Oil Changed		Client Info		Changed	Not Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	80	45	92
Chromium	ppm	ASTM D5185m	>20	1	<1	2
Nickel	ppm	ASTM D5185m	>4	<1	<1	3
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	7	6	14
Lead	ppm	ASTM D5185m	>40	2	2	4
Copper	ppm	ASTM D5185m	>330	7	5	12
Tin	ppm	ASTM D5185m	>15	2	1	2
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

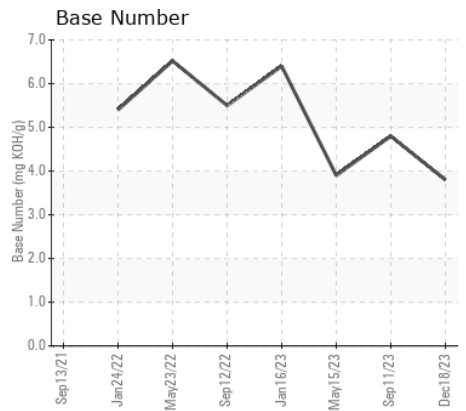
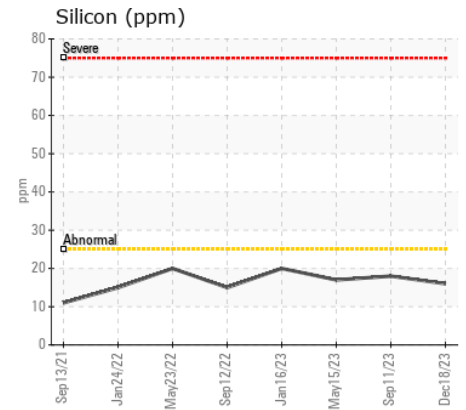
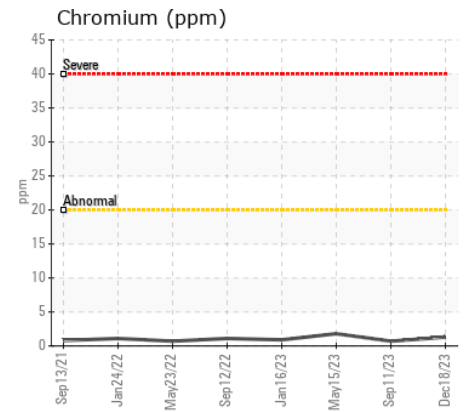
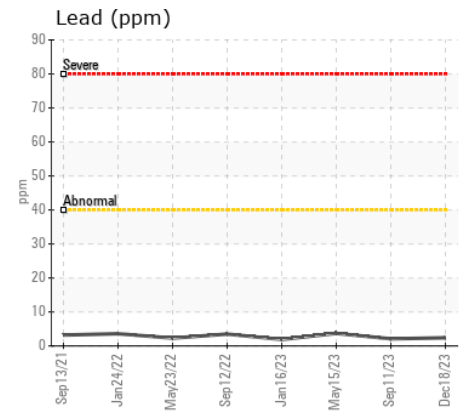
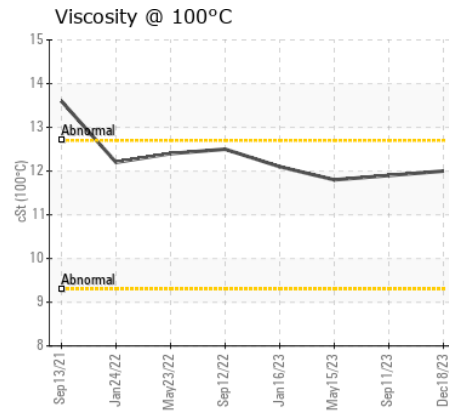
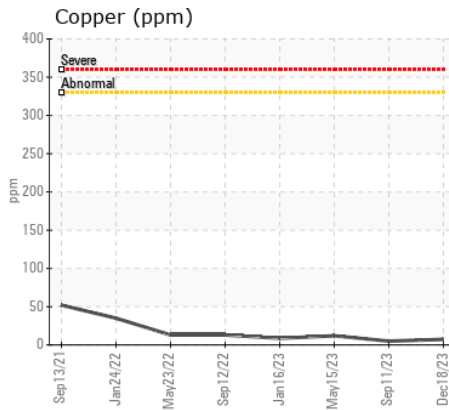
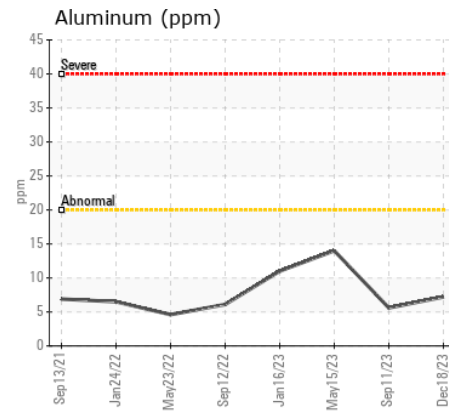
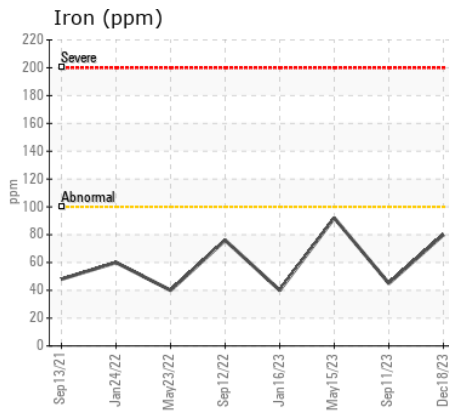
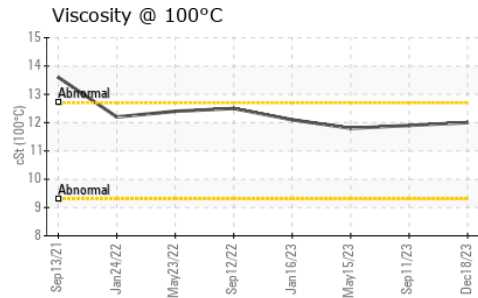
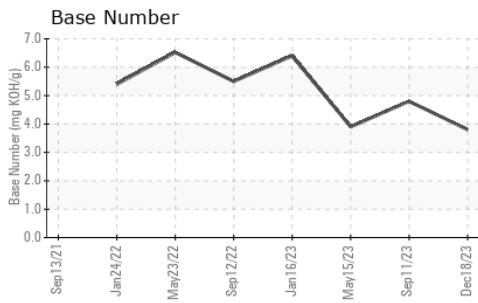
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	16	18	17
Potassium	ppm	ASTM D5185m	>20	16	18	▲ 102
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.9	0.7	1.1
Nitration	Abs/cm	*ASTM D7624	>20	10.1	9.3	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	30.1	26.4	31.3
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

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.

Sodium	ppm	ASTM D5185m		32	34	▲ 203
Boron	ppm	ASTM D5185m		17	21	14
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		91	92	115
Manganese	ppm	ASTM D5185m		2	<1	1
Magnesium	ppm	ASTM D5185m		454	497	450
Calcium	ppm	ASTM D5185m		1490	1670	1483
Phosphorus	ppm	ASTM D5185m		1107	1120	1085
Zinc	ppm	ASTM D5185m		1351	1440	1363
Sulfur	ppm	ASTM D5185m		2868	3964	3248
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.4	20.5	24.3
Base Number (BN)	mg KOH/g	ASTM D2896		3.8	4.8	3.9
Visc @ 100°C	cSt	ASTM D445		12.0	11.9	11.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0030680 **Received** : 26 Dec 2023
Lab Number : 06044309 **Tested** : 27 Dec 2023
Unique Number : 10804917 **Diagnosed** : 27 Dec 2023 - Don Baldrige
Test Package : MOB 1 (Additional Tests: TBN)

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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)