

## Machine Id **3603** Component **Diesel Engine** Fluid **{not provided} (12 QTS)**

RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

## **WEAR**

All component wear rates are normal.

## CONTAMINATION

-----

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Te	est	UOM	Method	Limit/Abn	Сι	urrent	History1	History2
Sa	ample Number		Client Info		IL	0033859	IL0030624	IL0030541
S	ample Date		Client Info		28	May 2024	22 Feb 2024	29 Nov 2023
Μ	lachine Age	mls	Client Info		80	159	65757	52774
0	il Age	mls	Client Info		0		0	0
Fi	ilter Age	mls	Client Info		0		0	0
0	il Changed		Client Info		N/	Ά	N/A	N/A
Fi	ilter Changed		Client Info		N/	Ά	N/A	N/A
S	ample Status		0.10111 1.110		SF	VFRF	SEVERE	SEVERE
Ire	on	ppm	ASTM D5185m	>100		61	81	136
С	hromium	ppm	ASTM D5185m	>20		2	2	4
Ν	ickel	ppm	ASTM D5185m	>4		<1	0	<1
Ti	itanium	ppm	ASTM D5185m			0	0	0
S	ilver	maa	ASTM D5185m	>3		3	<1	<1
A	luminum	mag	ASTM D5185m	>20		3	2	4
l e	ead	ppm	ASTM D5185m	>40		0	0	0
C	opper	mag	ASTM D5185m	>330		2	0	4
Ті	in	ppm	ASTM D5185m	>15		0	0	0
V	anadium	nom	ASTM D5185m	210		0	0	<1
W	/hite Metal	scalar	*Vieual	NONE			NONE	NONE
V	allow Motal	coalar	*Vicual	NONE		NONE	NONE	NONE
		Scalai	visuai				NONL	NONL
Si	ilicon	maa	ASTM D5185m	>25		11	11	15
P	otassium	mag	ASTM D5185m	>20		2	0	0
F	uel	%	ASTM D3524	>5		8.8	A 8.3	<b>9</b> .6
W	/ater	,0	WC Method	>0.2		NEG	NEG	NEG
G			WC Method	2 U.L		NEG	NEG	NEG
S		0/2	*ASTM D7844	<u>\</u> 3		1	1	1.8
N	itration	Abs/cm	*ASTM D7624	>20		13.1	13.1	17.6
S	ulfation	Abe/ 1mm	*ASTM D7415	>30		24.0	23.4	31.4
5	ilt	scalar	*Vieual				NONE	NONE
	obrie	scalar	*Visual	NONE		NONE	NONE	NONE
0	and/Dirt	coalar	*Vicual	NONE		NONE	NONE	NONE
٥ ۵		scalar	*Visual			NORM	NORM	NORM
	ppearance	scalar	*Visual				NORM	NORM
С Бл	wildified Water	scalar	*\/iouol			NEG	NEG	NEG
		Scalal	visual	>0.2		NEG	NEG	NEG
S	odium	maa	ASTM D5185m			3	<1	8
B	oron	mag	ASTM D5185m			3	3	0
B	arium	nom	ASTM D5185m			0	2	0
M	lolvbdenum	ppm	ASTM D5185m			61	61	47
M	langanese	nom	ASTM D5185m			2	<1	3
M	lagnesium	nom	ASTM D5185m			935	926	770
C	alcium	nom	ASTM D5185m			1090	1022	920
P	hosphorus	nom	ASTM D5185m			1077	1028	830
7	inc	nom	ASTM D5185m			1237	11020	991
2	ulfur	nnm	ASTM D5185m			3420	2608	2046
0	vidation	Abe/ 1mm	*ASTM D7/1/	>25		0420 00 1	2000	2040
D P	nualion Reg Number (RN)		ASTM D2806	220		70	7.0	5.0
		nig KUTi/g				11.22	7.0	115
V		υOι	70 I IVI D440		<b>\</b>	11.33	· 📥 II.I	C.11



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)

dixonj@rushenterprises.com

T: (704)333-4507

F: (704)333-4508