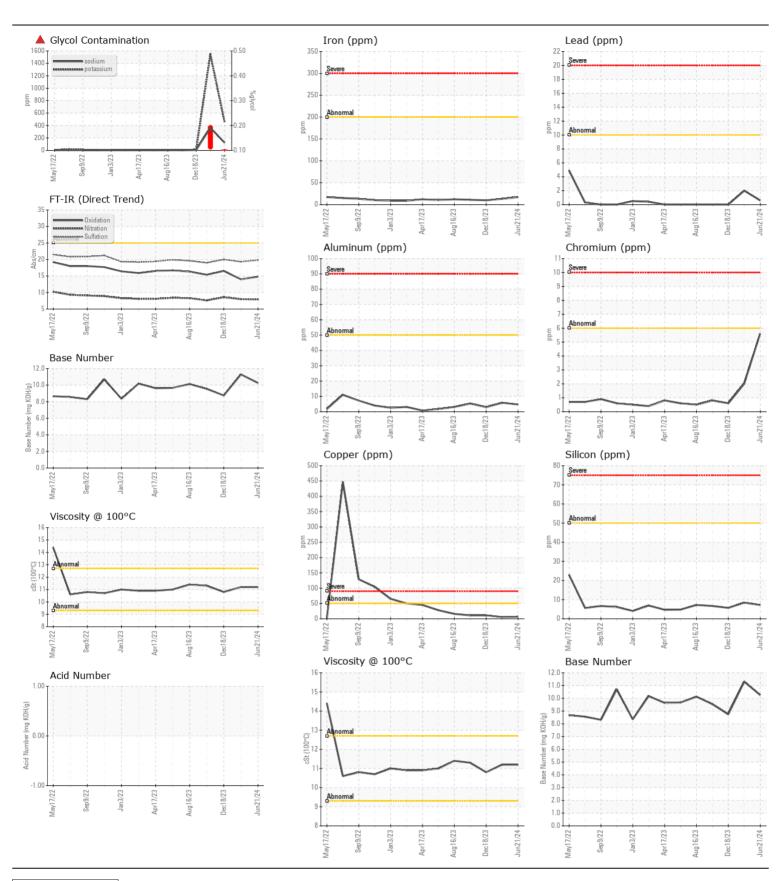
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL SEVERE ABNORMAL

Machine Id

WESTERN STAR T5

Diesel Engine Fluid							
10W30 DURON SEMI (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOOMMENDATION	Sample Number	00.01	Client Info	Ellillo 7 toll	LP0001944	LP0001320	LP0001570
We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Date		Client Info		21 Jun 2024		18 Dec 2023
	Machine Age	hrs	Client Info		5742	5392	4796
	Oil Age	hrs	Client Info		350	590	400
	Filter Age	hrs	Client Info		350	590	400
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				SEVERE	SEVERE	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>200	17	13	10
	Chromium	ppm	ASTM D5185m		6	2	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	- <1	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>2	0	<1	0
	Aluminum	ppm	ASTM D5185m		5	6	3
	Lead	ppm	ASTM D5185m	>10	<1	2	0
	Copper	ppm	ASTM D5185m	>50	6	6	11
	Tin	ppm	ASTM D5185m	>6	<1	2	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	7	8	6
	Potassium	ppm	ASTM D5185m	>20	460	<u></u> 1545	11
Sodium and/or potassium levels are high. Test for glycol is positive.	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		▲ 0.10	▲ 0.20	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.2	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	7.9	8.0	8.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	19.3	20.0
	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	Sodium	ppm	ASTM D5185m		124	362	5
The DN recult indicates that there is quitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		6	3	7
The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		0	1	0
	Molybdenum	ppm	ASTM D5185m		117	185	65
	Manganese	ppm	ASTM D5185m		1	1	<1
	Magnesium	ppm	ASTM D5185m		1050	913	951
	Calcium	ppm	ASTM D5185m		1207	1144	1089
	Phosphorus	ppm	ASTM D5185m		1148	1145	1048
	Zinc	ppm	ASTM D5185m		1434	1247	1270
	Sulfur	ppm	ASTM D5185m		3792	4108	2564
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	14.0	16.5
	Base Number (BN)	0 0			10.26	11.30	8.75
	Visc @ 100°C	cSt	ASTM D445		11.2	11.2	10.8





Report Id: SELSALNH [WUSCAR] 06224088 (Generated: 07/03/2024 01:58:01) Rev: 1

Laboratory Sample No.

Lab Number

: LP0001944 : 06224088 Unique Number : 11102285

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: 28 Jun 2024 : 02 Jul 2024 Diagnosed

: 02 Jul 2024 - Jonathan Hester

SELECT DEMO 40 LOWELL RD SALEM, NH US 03079

F: (603)458-7389

Test Package : MOB 2 (Additional Tests: KV40, TAN Man) 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.

Contact: STAN DOGIL SDOGIL@SELECTDEMOSERVICES.COM T: (603)401-0147