

Current

History1

History2

Limit/Abn

## Machine Id 149977 Componen **Diesel Engine** MOBIL DELVAC 1300 SUPER 15W40 (--- QTS)

## RECOMMENDATION

RECOMMENDATION	Test	UOIVI	Method	LIIIII/ADII	Current	HISTOLA	HISTOLAS
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 Number		Client Info		RPL0019517	RPL0012501	RPL0003502
	Sample Date		Client Info		24 Jun 2024	08 Aug 2023	09 Jul 2022
	Machine Age	mls	Client Info		284587	234783	168663
	Oil Age	mls	Client Info		40000	9110	25000
	Filter Age	mls	Client Info		40000	9110	25000
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		Changed	Not Changd	Changed
	Sample Status		Oliciti IIIO		SEVERE	NORMAL	NORMAL
					JEVENE	NORMAL	NORIVIAL
WEAR	Iron	ppm	ASTM D5185m	>100	<b>A</b> 131	18	31
	Chromium	ppm	ASTM D5185m	>20	5	<1	2
Cylinder, crank, or cam shaft wear is indicated.	Nickel	ppm	ASTM D5185m	>4	<1	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m		14	4	8
	Lead	ppm	ASTM D5185m		35	2	2
	Copper	ppm	ASTM D5185m		3	<1	2
	Tin	ppm	ASTM D5185m		2	<1	<1
	Vanadium	ppm	ASTM D5185m	210	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal		*Visual	NONE	NONE	NONE	NONE
		scalar	visuai	INOINE		NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	13	6	8
John Amin'Arion	Potassium	ppm	ASTM D5185m		A 1255	2	8
Sodium and/or potassium levels are high. There is a high concentration of glycol present in the oil.	Fuel	ppiii	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol	%	*ASTM D2982	20.L	▲ 0.20	NEG	NEG
	Soot %	%	*ASTM D7844	. ?	1.5	0.4	0.6
	Nitration	Abs/cm	*ASTM D7624		1.5	8.9	10.4
	Sulfation		*ASTM D7024			21.5	25.3
		Abs/.1mm			35.3		
	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	Sodium	ppm	ASTM D5185m		<b>166</b>	<1	10
	Boron	ppm	ASTM D5185m	0	10	6	37
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.	Barium		ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		-	68	39
	Manganese	ppm		0	161		
	U	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	0	1084	973	588
	Calcium	ppm	ASTM D5185m		1324	1159	1708
	Phosphorus	ppm	ASTM D5185m		1144	1046	733
	Zinc	ppm	ASTM D5185m		1425	1297	963
	Sulfur	ppm	ASTM D5185m		2784	3249	2824
	<b>A 1 1 1</b>	AL (	A 4 O TH 4 T - 1 1 1	<u> </u>		· · · · ·	10 -

Oxidation

Visc @ 100°C cSt

UOM

Method

Abs/.1mm \*ASTM D7414 >25

ASTM D445

14

Base Number (BN) mg KOH/g ASTM D2896 9.4

Test

17.7

8.5

13.8

18.6

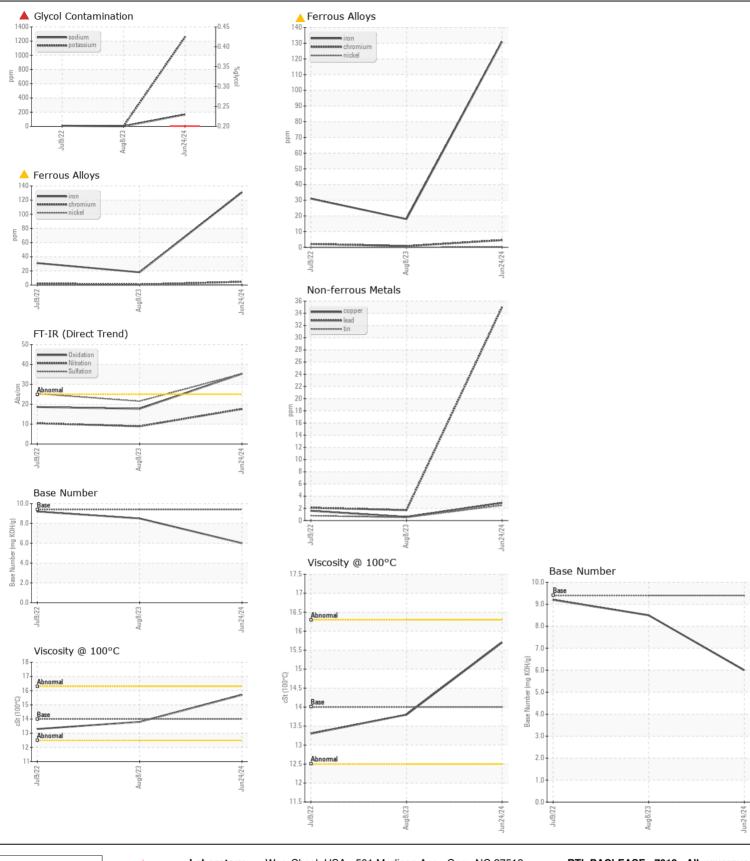
9.2

13.3

35.3

6.0

15.7



**RTL PACLEASE - 7013 - Albuquerque** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : RPL0019517 Received 901 64th St. N.W. : 03 Jul 2024 ŭ Lab Number : 06227011 Tested Albuquerque, NM : 05 Jul 2024 Unique Number : 11110504 : 05 Jul 2024 - Jonathan Hester US 87121 Diagnosed Test Package : FLEET ( Additional Tests: Glycol ) Contact: Aaron Arrey Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. ArreyA@RushEnterprises.Com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (505)767-7404 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: Aaron Arrey - PAC7013 Page 2 of 2