

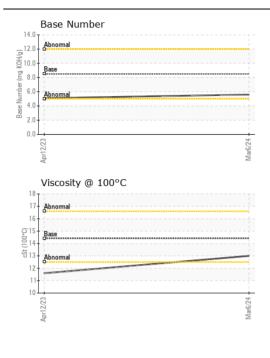
WEAR CONTAMINATION FLUID CONDITION

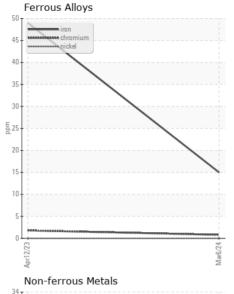
NORMAL NORMAL

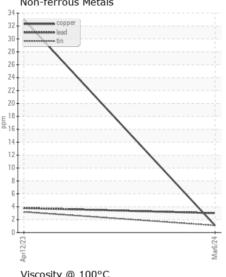
Machine Id **146-1371**

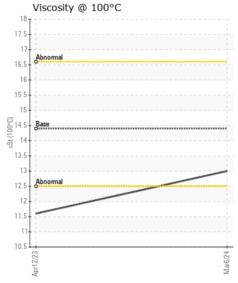
Component

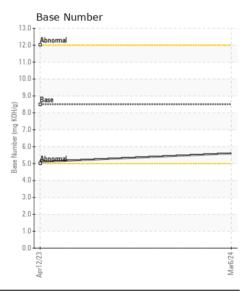
Component Diesel Engine							
DIESEL ENGINE OIL SAE 15W40 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		RPL0011121	RPL0006865	
	Sample Date		Client Info		06 Mar 2024	12 Apr 2023	
	Machine Age	mls	Client Info		148257	39109	
	Oil Age	mls	Client Info		0	39109	
	Filter Age	mls	Client Info		0	39109	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	15	49	
WLAII	Chromium	ppm	ASTM D5185m		<1	2	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m	74	0	0	
	Silver	ppm	ASTM D5185m	~3	0	0	
	Aluminum	ppm	ASTM D5185m		10	22	
	Lead		ASTM D5185m		3	4	
	Copper	ppm	ASTM D5185m		1	33	
	Tin	ppm	ASTM D5185m		1	3	
	Vanadium	ppm	ASTM D5185m	/10	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
<u></u>		Scalai	Visuai	INOINL	NONE	INOINL	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	4 3	
Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	20	62	
	Fuel		WC Method	>5	<1.0	0.8	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.4	0.4	
	Nitration	Abs/cm	*ASTM D7624	>20	10.1	9.8	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	20.5	
	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	
ELUID CONDITION	0 "		AOTM DE CO	450			
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	2	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		38	27	
	Barium	ppm		10	0	0	
	Molybdenum	ppm	ASTM D5185m	100	97	18	
	Manganese	ppm	ASTM D5185m	450	<1	5	
	Magnesium	ppm	ASTM D5185m		599	570	
	Calcium	ppm	ASTM D5185m		1443	1498	
	Phosphorus	ppm	ASTM D5185m		771	723	
	Zinc	ppm	ASTM D5185m		925	878	
	Sulfur Oxidation	ppm Abo/1mm	*ASTM D5185m		3314	2711	
		Abs/.1mm			19.2 5.6	18.7 5.1	
	Base Number (BN) Visc @ 100°C	cSt	ASTM D2696 ASTM D445		13.0	11.6	
	V130 @ 100 0	COL	AUTIVI D440	17.7	13.0	11.0	













Report Id: PAC7008 [WUSCAR] 06124180 (Generated: 03/21/2024 15:39:22) Rev: 1

Laboratory Sample No.

: RPL0011121 Lab Number : 06124180 Unique Number : 10938331 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Mar 2024 **Tested** : 21 Mar 2024

Diagnosed : 21 Mar 2024 - Wes Davis RTL PACLEASE - 7008 - Phoenix 625 South 27th Ave Phoenix, AZ US 85009

Contact: Maurice Pilotte PilotteM@rushenterprises.com T: (602)566-5712

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)