

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

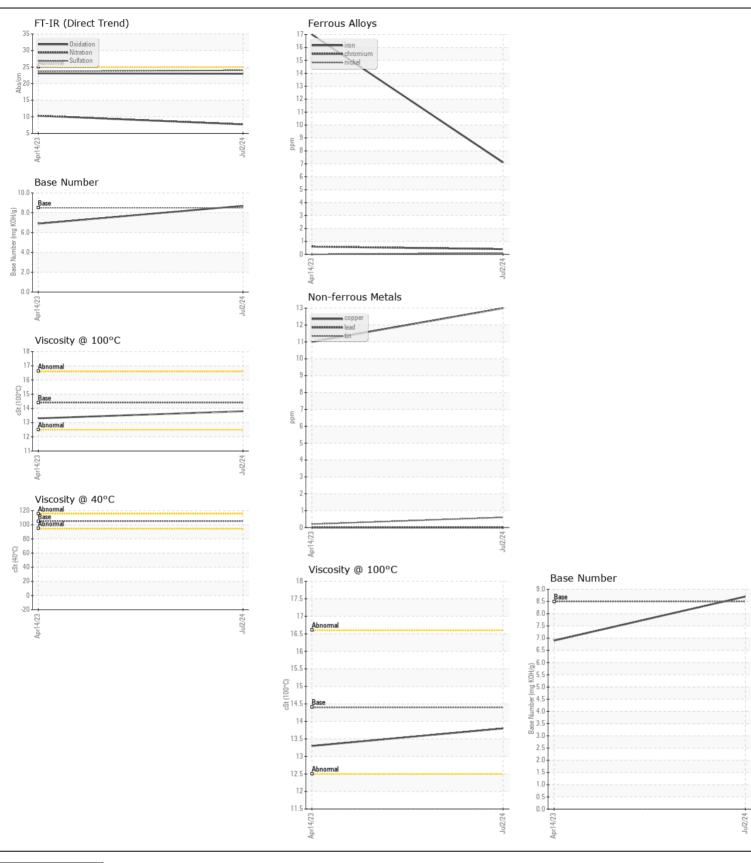
Machine Id

846-4101

Component
Diesel Engine

DIESEL ENGINE OIL 10W40 (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		RPL0022006	RPL0011229	
	Sample Date		Client Info		02 Jul 2024	14 Apr 2023	
	Machine Age	mls	Client Info		113263	87784	
	Oil Age	mls	Client Info		0	3272	
	Filter Age	mls	Client Info		0	3272	
	Oil Changed		Client Info		Changed	Not Changd	
	Filter Changed		Client Info		Changed	Not Changd	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	7	17	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	
	Nickel	ppm	ASTM D5185m	>4	<1	0	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>20	3	2	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m	>330	13	11	
	Tin	ppm	ASTM D5185m	>15	<1	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTABBINIATION	0'1'		AOTM DE CO	0.5	4.4		
CONTAMINATION	Silicon	ppm	ASTM D5185m		11	5	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	0	
	Fuel		WC Method		<1.0	<1.0	
	Water Glycol		WC Method	>0.2	NEG NEG	NEG NEG	
	Soot %	%	*ASTM D7844	. 2	0	0	
	Nitration	Abs/cm	*ASTM D7624		7.7	10.3	
	Sulfation	Abs/.1mm	*ASTM D7024		24.0	23.7	
	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		*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		6	5	
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	250	57	31	
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m	100	42	41	
	Manganese	ppm	ASTM D5185m		2	<1	
	Magnesium	ppm	ASTM D5185m		492	502	
	Calcium	ppm	ASTM D5185m	3000	1578	1608	
	Phosphorus	ppm	ASTM D5185m		726	684	
	Zinc	ppm	ASTM D5185m		884	895	
	Sulfur	ppm	ASTM D5185m		2756	2761	
	Oxidation	Abs/.1mm	*ASTM D7414		23.0	23.1	
	Base Number (BN)				8.7	6.9	
	Visc @ 100°C	cSt	ASTM D445	14.4	13.8	13.3	







Laboratory

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No.

: RPL0022006 Lab Number : 06238837

Unique Number : 11127671

Received **Tested** Diagnosed

Test Package: FLEET (Additional Tests: KV40)

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.

: 18 Jul 2024 - Sean Felton

: 17 Jul 2024

: 18 Jul 2024

3121 South Riverside Bloomington, CA US 92316

RTL PACLEASE - 7007 - Fontana

Contact: Rudy Trevizo TrevizoR@RushEnterprises.Com T: (909)829-1044

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