WEAR CONTAMINATION FLUID CONDITION

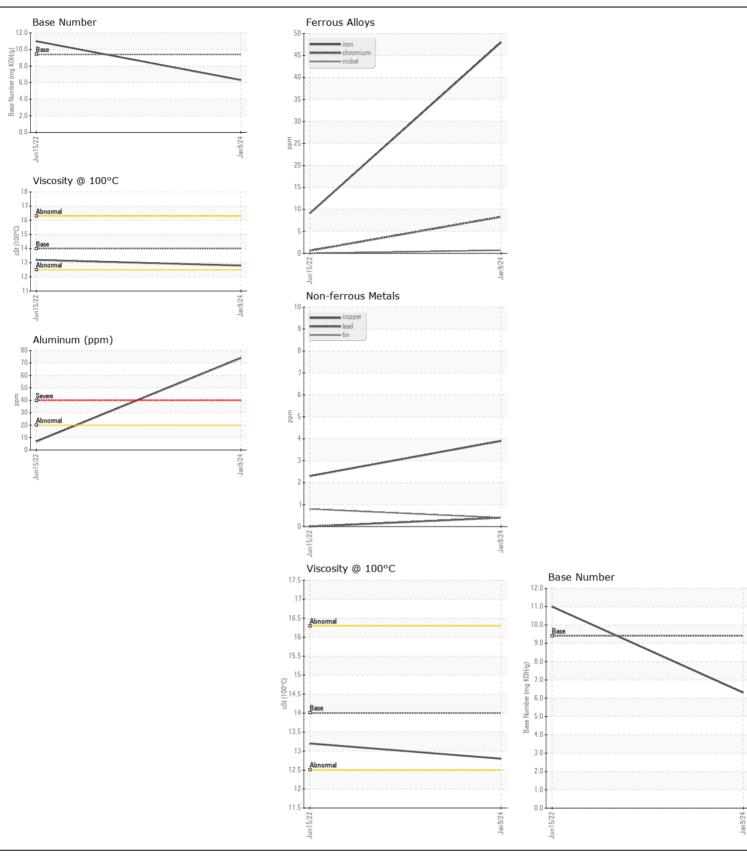
NORMAL NORMAL

Machine Id 14635

Component

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		IL0029416	IL0014602	
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Date		Client Info		09 Jan 2024	15 Jun 2022	
	Machine Age	mls	Client Info		0	13691	
	Oil Age	mls	Client Info		0	0	
	Filter Age	mls	Client Info		0	0	
	Oil Changed		Client Info		Changed	N/A	
	Filter Changed		Client Info		Changed	N/A	
	Sample Status				NORMAL	NORMAL	
VEAR	Iron	ppm	ASTM D5185m	>100	48	9	
WEAT	Chromium	ppm	ASTM D5185m		8	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	
	Titanium	ppm	ASTM D5185m	7 7	<1	<1	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m		74	7	
	Lead	ppm	ASTM D5185m		<1	0	
	Copper	ppm	ASTM D5185m		4	2	
	Tin	ppm	ASTM D5185m		<1	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm		>25	17	8	
Elevated aluminum (Al) 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		136	15	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.7	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	11.5	7.0	
	Sulfation	Abs/.1mm	*ASTM D7415		20.3	21.5	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	LIGHT	
	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	
LUID CONDITION	Sodium	ppm	ASTM D5185m		10	2	
	Boron	ppm	ASTM D5185m	0	47	47	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		115	34	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m	0	718	700	
	Calcium	ppm	ASTM D5185m		1311	1331	
	Phosphorus	ppm	ASTM D5185m		806	779	
	Zinc	ppm	ASTM D5185m		960	1024	
	Sulfur	ppm	ASTM D5185m		3317	3222	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	16.5	
	Base Number (BN)	mg KOH/g	ASTM D2896	9.4	6.3	11	
	Visc @ 100°C	cSt	ASTM D445	1/	12.8	13.2	







Sample No.

Laboratory

: IL0029416 Lab Number : 06121362 Unique Number : 10930195 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Mar 2024 : 19 Mar 2024 **Tested** 

: 19 Mar 2024 - Wes Davis Diagnosed

**RUSH TRUCK LEASING - BOISE IDEALEASE** 770 WEST AMITY ROAD

BOISE, ID US 83705

Contact: MATT BORCHARDT

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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)

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