WEAR CONTAMINATION FLUID CONDITION

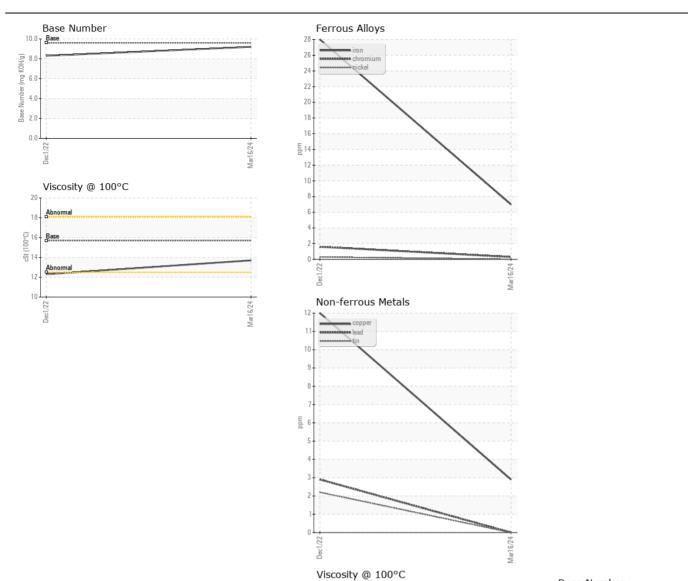
NORMAL NORMAL NORMAL

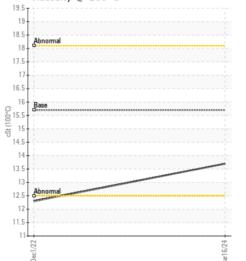
Machine Id

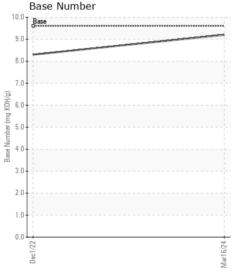
5400143

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0777412	WC0732324	
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Date		Client Info		16 Mar 2024	01 Dec 2022	
	Machine Age	hrs	Client Info		1977	502	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	ATTENTION	
VEAR	Iron	ppm	ASTM D5185m	<b>&gt;100</b>	7	28	
VLAN	Chromium	ppm	ASTM D5185m		، <1	2	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	
	Titanium	ppm	ASTM D5185m	>4	<1	<1	
	Silver	ppm	ASTM D5185m	-3	0	0	
	Aluminum	ppm	ASTM D5185m		3	6	
	Lead	ppm	ASTM D5185m		0	3	
	Copper	ppm	ASTM D5185m		3	12	
	Tin	ppm	ASTM D5185m		0	2	
	Vanadium	ppm	ASTM D5185m	7.0	<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		8	16	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		4	2	
	Fuel		WC Method		<1.0	0.4	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	21	WC Method	0	NEG	NEG	
	Soot %	%	*ASTM D7844		0.1	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	6.9	8.4	
	Sulfation	Abs/.1mm	*ASTM D7415		19.4	21.1	
	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	
LUID CONDITION	Sodium	ppm	ASTM D5185m		7	2	
	Boron	ppm	ASTM D5185m		75	257	
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		59	73	
	Manganese	ppm	ASTM D5185m		<1	4	
	Magnesium	ppm	ASTM D5185m		524	592	
	Calcium	ppm	ASTM D5185m		1506	1510	
	Phosphorus	ppm	ASTM D5185m	1200	1030	755	
	Zinc	ppm	ASTM D5185m	1300	1199	935	
	Sulfur	ppm	ASTM D5185m	3200	3646	3637	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	16.3	
	Base Number (BN)	mg KOH/g	<b>ASTM D2896</b>	9.6	9.2	8.3	









Laboratory Sample No.

Lab Number : 06122973 Unique Number : 10937124

: WC0777412

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

: 20 Mar 2024 Diagnosed : 20 Mar 2024 - Wes Davis

**HAYWARD BAKER INC - HOUSTON** 509 N SAM HOUSTON PKWY E HOUSTON, TX

US 77060 Contact: CHARLIE JOHNS cejohns@keller-na.com T: (281)668-1870

Test Package : CONST ( Additional Tests: TBN ) 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)