

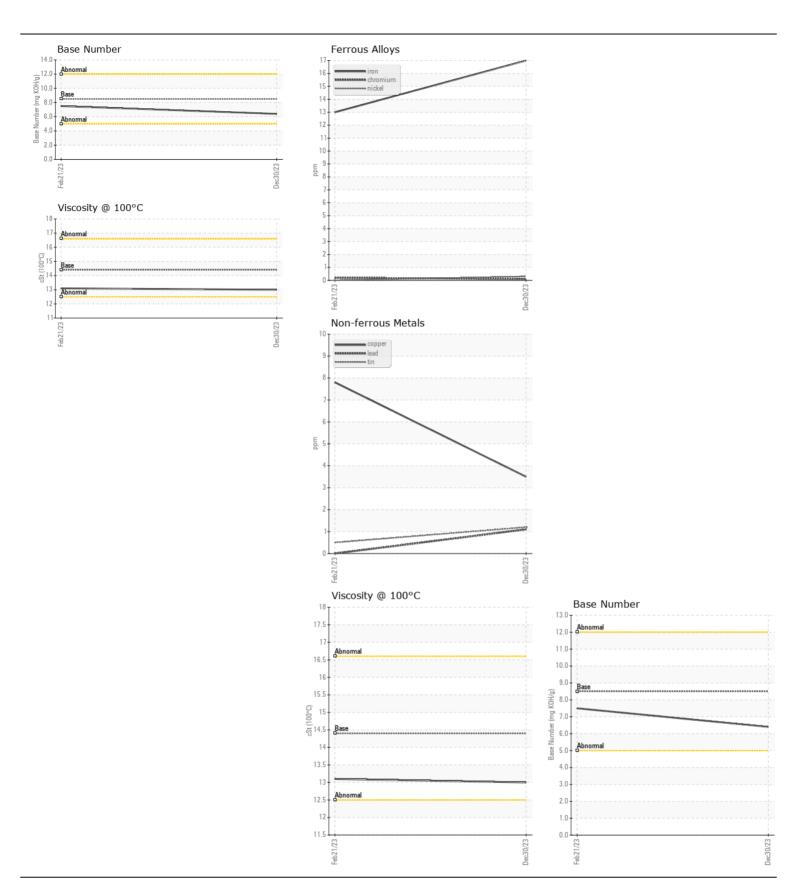
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



Machine Id
460
Component
Diesel Engine

DIESEL ENGINE OIL SAE 15W4	10 (GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		WC0847894	WC0760010	
	Sample Date		Client Info		30 Dec 2023	21 Feb 2023	
	Machine Age	hrs	Client Info		5743	4131	
	Oil Age	hrs	Client Info		1612	0	
	Filter Age	hrs	Client Info		1612	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAD				400		4.0	
WEAR	Iron	ppm	ASTM D5185m		17	13	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	
	Nickel	ppm	ASTM D5185m		<1	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		2	1	
	Lead	ppm	ASTM D5185m		1	0	
	Copper	ppm	ASTM D5185m ASTM D5185m		4	8	
	Tin Vanadium	ppm		>15	0	<1 0	
	White Metal	ppm	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
		scalar	VISUAI	INOINE	INOINE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		4	4	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		8	<1	
	Fuel		WC Method	>3.0	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	21	WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.5	0.4	
	Nitration	Abs/cm	*ASTM D7624	>20	9.8	8.7	
	Sulfation	Abs/.1mm	*ASTM D7415		21.8	20.0	
	Silt Debris	scalar	*Visual *Visual	NONE	NONE NONE	NONE NONE	
	Sand/Dirt	scalar 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	>158	8	3	
The DN was thinglised as the thousing stitches all clinits were since in the	Boron	ppm	ASTM D5185m	250	6	4	
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	10	0	0	
	Molybdenum	ppm	ASTM D5185m	100	63	60	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m	450	875	858	
	Calcium	ppm	ASTM D5185m		1126	1112	
	Phosphorus	ppm	ASTM D5185m		998	909	
	Zinc	ppm	ASTM D5185m		1212	1108	
	Sulfur	ppm	ASTM D5185m		2821	3266	
	Oxidation	Abs/.1mm	*ASTM D7414		18.2	15.0	
	Base Number (BN)				6.4	7.5	
	Visc @ 100°C	cSt	ASTM D445	14.4	13.0	13.1	







Laboratory Sample No. Lab Number **Unique Number**

: 10834800

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0847894 Recieved : 06063418

Test Package : CONST (Additional Tests: TBN)

Diagnosed : 18 Jan 2024

: 17 Jan 2024

Diagnostician : Wes Davis

US 17202 Contact: Service Manager

5436 Sunset Pike

Chambersburg, PA

Apple Valley Waste - Chambersburg Location

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)

T:

F: