

WEAR CONTAMINATION FLUID CONDITION

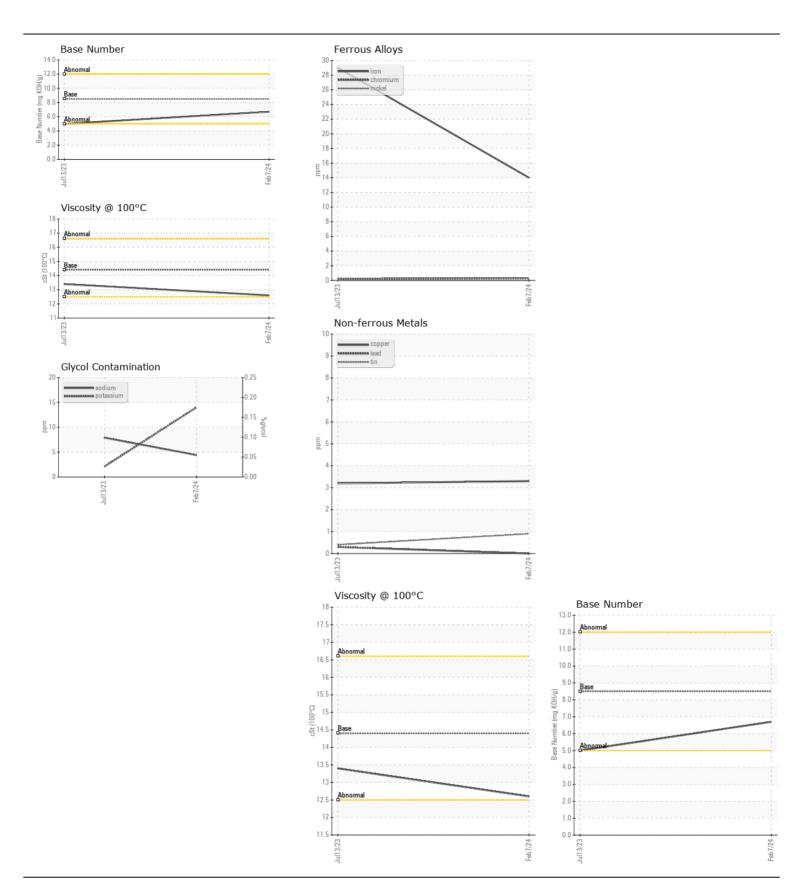
NORMAL NORMAL



Machine Id
F17
Component
Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DILGEL LINGING OIL GAL 13W-	10 (GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0874282	WC0758917	,
Resample at the next service interval to monitor.	Sample Date		Client Info		07 Feb 2024	13 Jul 2023	
	Machine Age	hrs	Client Info		13976	220669	
	Oil Age	hrs	Client Info		546	644	
	Filter Age	hrs	Client Info		546	0	
	Oil Changed		Client Info		Changed	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	NORMAL	
WEAD	luan		ACTM DE10E	100	4.4	00	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		14	29	
	Chromium Nickel	ppm	ASTM D5185m		<1	<1	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		<1 0	<1	
		ppm	ASTM D5185m		-	0 6	
	Aluminum Lead	ppm	ASTM D5185m ASTM D5185m		20 0		
	Copper	ppm	ASTM D5185m		3	<1 3	
	Tin	ppm ppm		>330	ง <1	<1	
	Vanadium	ppm	ASTM D5185m	/10	<1 <1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
				TVOIVE		14014	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	8	
	Potassium	ppm	ASTM D5185m	>20	14	2	
There is no indication of any contamination in the oil.	Fuel		WC Method	>3.0	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	%	*ASTM D2982		NEG	NEG	
	Soot %	%	*ASTM D7844	>4	0.4	0.7	
	Nitration	Abs/cm	*ASTM D7624	>20	9.1	10.2	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	23.8	
	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	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	4	8	
TEOID CONDITION	Boron	ppm	ASTM D5185m		8	20	
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	-	63	85	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m	450	892	154	
	Calcium	ppm	ASTM D5185m		1164	2170	
	Phosphorus	ppm	ASTM D5185m		1008	1008	
	Zinc	ppm	ASTM D5185m		1218	1246	
	Sulfur	ppm	ASTM D5185m	4250	3078	4017	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6	18.0	
	Base Number (BN)	mg KOH/g	ASTM D2896		6.7	5.0	
	Visc @ 100°C	cSt	ASTM D445		12.6	13.4	







Laboratory

Sample No.

: WC0874282 Lab Number : 06084250

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

Unique Number : 10871695

Received : 08 Feb 2024 **Tested** : 12 Feb 2024

: 12 Feb 2024 - Don Baldridge Diagnosed Test Package : CONST (Additional Tests: Glycol, TBN)

Apple Valley Waste - EHT Location

6626 Delilah Road Egg Harbor Township, NJ US 08234

Contact: Service Manager

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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F: