MOB	Dura-Check Fluid Analysis
▁┻	OIL ANALYSIS REPORT
	Area

Area [WL-3] CATERPILLAR 938K WL-3 Component Diesel Engine Fluid DURAMAX 15W40 ( LTR)	(S/N 938K	VSW	/L0394	4)			
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		DC0028670	DC0022542	DC0020949
Resample at the next service interval to monitor.	Sample Date		Client Info		15 Jan 2024	25 Aug 2023	20 Feb 2023
	Machine Age	hrs	Client Info		6889	6231	5208
	Oil Age	hrs	Client Info		620	1000	650
	Filter Age	hrs	Client Info		620	1000	650
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	10	36	30
	Chromium	ppm	ASTM D5185m		<1	1	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		16	22	24
	Lead	ppm	ASTM D5185m		1	<1	<1
	Copper	ppm	ASTM D5185m		6	55	68
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon		ASTM D5185m	. 05	4	6	5
CONTAMINATION	Potassium	ppm	ASTM D5185m		3	3	1
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		3 <1.0	<1.0	<1.0
	Water		WC Method		<1.0 NEG	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	13	0.5	0.2	0.5
	Nitration	Abs/cm	*ASTM D7644	>20	7.3	9.1	7.6
	Sulfation	Abs/.1mm	*ASTM D7024		19.3	25.3	19.9
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris		*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
			Violal				
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	5	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		0	<1	2
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	0
	Molybdenum	ppm	ASTM D5185m		2	3	4
	Manganese	ppm	ASTM D5185m		<1	1	<1
	Magnesium	ppm	ASTM D5185m		36	48	51
	Calcium	ppm	ASTM D5185m		2384	2512	2372
	Phosphorus	ppm	ASTM D5185m		949	892	856
	Zinc	ppm	ASTM D5185m		1146	1131	1090

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m

Base Number (BN) mg KOH/g ASTM D2896

Abs/.1mm \*ASTM D7414 >25

ASTM D445

13.4

6.4

13.2

4028 4254

10.7

13.1

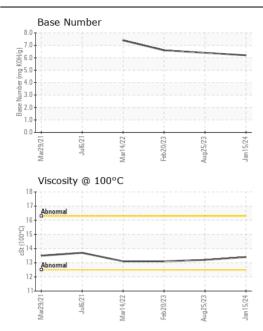
6.6

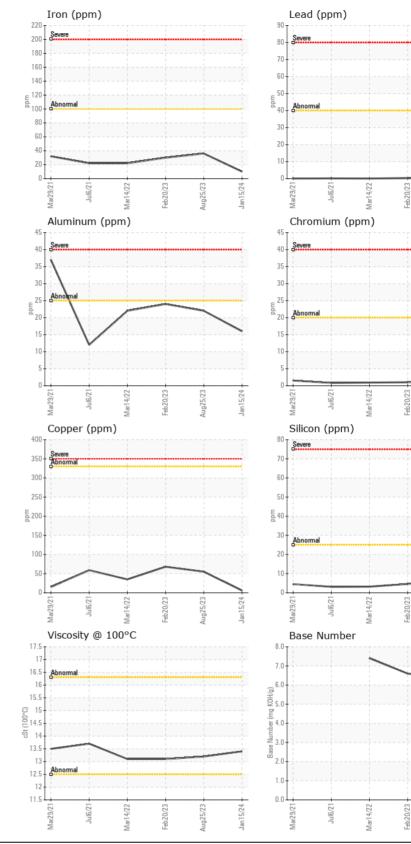
3756

10.7

6.2

13.4





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: WearCheck USA - 501 Madison Ave., Cary, NC 27513 CONSERVIT INC. Laboratory : DC0028670 : 26 Feb 2024 PO BOX 1517 Sample No. Received Lab Number : 06100674 : 27 Feb 2024 HAGERSTOWN, MD Tested Unique Number : 10898904 : 27 Feb 2024 - Wes Davis US 21740 Diagnosed Test Package : MOB 1 (Additional Tests: TBN) Contact: DON LONG Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. T: (301)791-0100 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. F: (301)739-8548

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

Submitted By: DON LONG

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