MOB I

Dura-Check Fluid Analysis

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[20234836]
Machine Id
Cummins 4700 River Rd 400kw
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (30 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

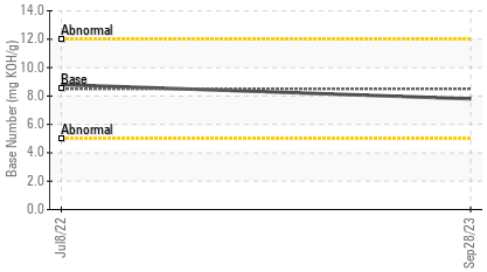
There is no indication of any contamination in the oil.

FLUID CONDITION

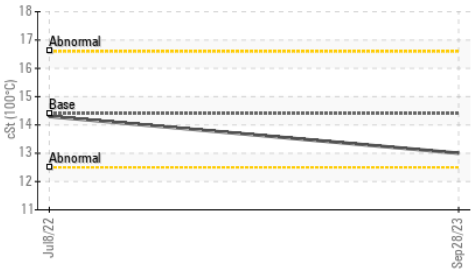
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0029829	DC0021977	---
Sample Date		Client Info		28 Sep 2023	08 Jul 2022	---
Machine Age	yrs	Client Info		0	0	---
Oil Age	yrs	Client Info		1	1	---
Filter Age	yrs	Client Info		1	1	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---
Iron	ppm	ASTM D5185m	>90	0	1	---
Chromium	ppm	ASTM D5185m	>20	<1	0	---
Nickel	ppm	ASTM D5185m	>2	<1	<1	---
Titanium	ppm	ASTM D5185m	>2	0	0	---
Silver	ppm	ASTM D5185m	>2	0	<1	---
Aluminum	ppm	ASTM D5185m	>20	0	1	---
Lead	ppm	ASTM D5185m	>40	3	1	---
Copper	ppm	ASTM D5185m	>330	2	<1	---
Tin	ppm	ASTM D5185m	>15	<1	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>25	3	5	---
Potassium	ppm	ASTM D5185m	>20	3	1	---
Fuel		WC Method	>3.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>6	0.1	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	5.3	5.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	14.8	16.8	---
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	---
Sodium	ppm	ASTM D5185m	>158	0	<1	---
Boron	ppm	ASTM D5185m	250	7	9	---
Barium	ppm	ASTM D5185m	10	0	0	---
Molybdenum	ppm	ASTM D5185m	100	7	7	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m	450	105	112	---
Calcium	ppm	ASTM D5185m	3000	2132	2248	---
Phosphorus	ppm	ASTM D5185m	1150	918	937	---
Zinc	ppm	ASTM D5185m	1350	1078	1084	---
Sulfur	ppm	ASTM D5185m	4250	3857	4128	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	8.7	10.1	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.8	8.8	---
Visc @ 100°C	cSt	ASTM D445	14.4	13.0	14.3	---

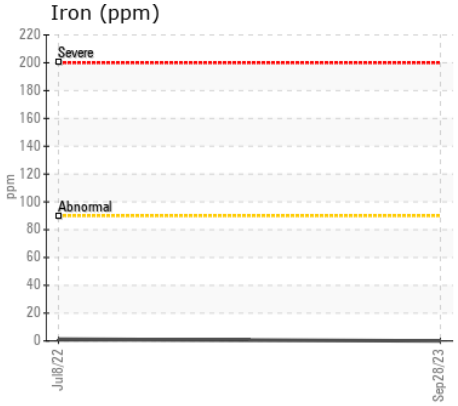
Base Number



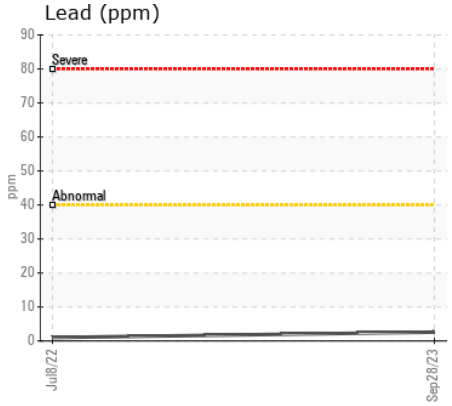
Viscosity @ 100°C



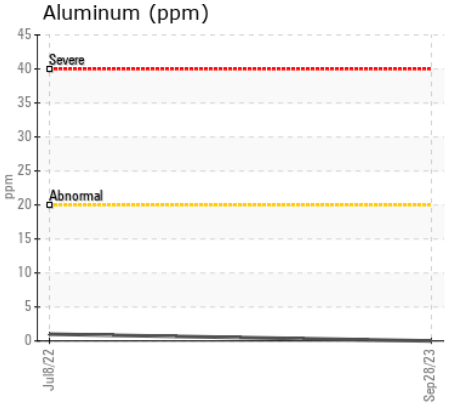
Iron (ppm)



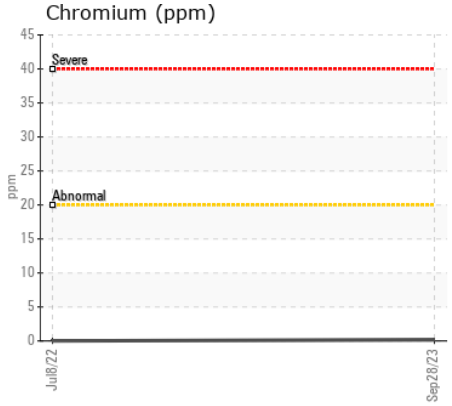
Lead (ppm)



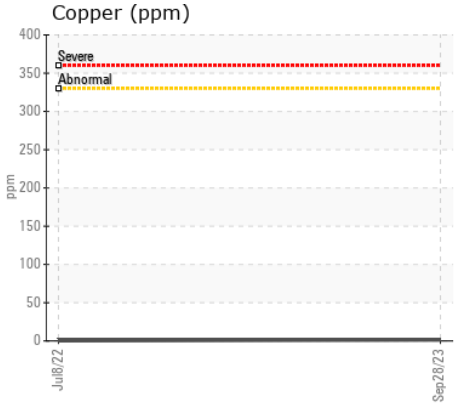
Aluminum (ppm)



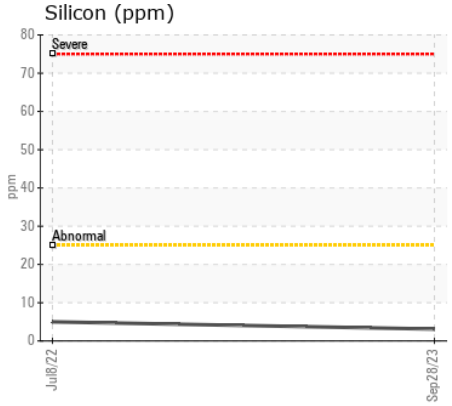
Chromium (ppm)



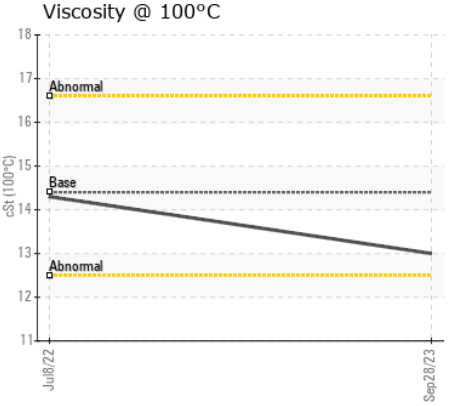
Copper (ppm)



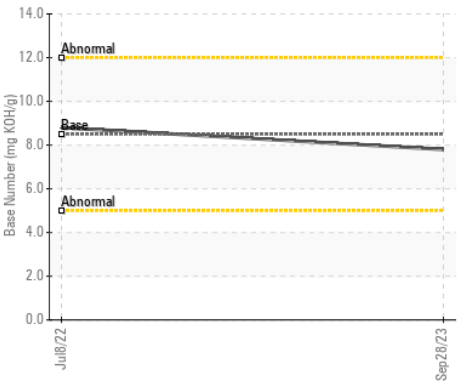
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0029829 **Received** : 09 Oct 2023
Lab Number : 05972676 **Tested** : 10 Oct 2023
Unique Number : 10684626 **Diagnosed** : 10 Oct 2023 - Wes Davis
Test Package : MOB 1 (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)

JE RICHARDS
4600 HARGROVE DR
LANHAM, MD
US 20706
Contact: E. NOEL
enoel@phalconusa.com
T: (240)623-4398
F: