MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Area
[CONHER]
Machine Id
MERCDES BENZ UM - SAC #162 Ac. Motor
Component
Diesel Engine
Fluid
CHEVRON DELO 400 SDE SAE 15W40 (16 LTR)

RECOMMENDATION

We advise that you check the fuel injection system. Resample at the next service interval to monitor. (Customer Sample Comment: Oil with 5 months)

WEAR

All component wear rates are normal.

CONTAMINATION

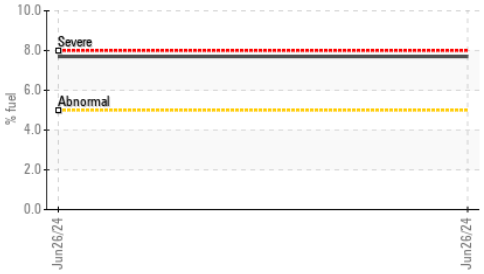
There is a moderate amount of fuel present in the oil. The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

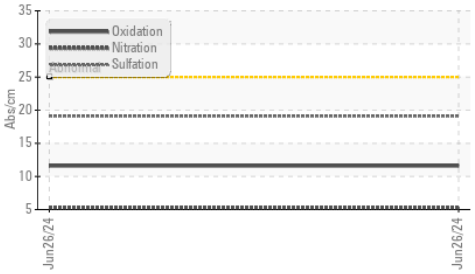
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0014601	---	---
Sample Date		Client Info		26 Jun 2024	---	---
Machine Age	kms	Client Info		95045	---	---
Oil Age	kms	Client Info		21925	---	---
Filter Age	kms	Client Info		21925	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				ABNORMAL	---	---
Iron	ppm	ASTM D5185m	>100	14	---	---
Chromium	ppm	ASTM D5185m	>20	0	---	---
Nickel	ppm	ASTM D5185m	>50	<1	---	---
Titanium	ppm	ASTM D5185m	>2	0	---	---
Silver	ppm	ASTM D5185m	>2	0	---	---
Aluminum	ppm	ASTM D5185m	>50	2	---	---
Lead	ppm	ASTM D5185m	>40	0	---	---
Copper	ppm	ASTM D5185m	>330	0	---	---
Tin	ppm	ASTM D5185m	>15	<1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>25	6	---	---
Potassium	ppm	ASTM D5185m	>20	2	---	---
Fuel	%	ASTM D3524	>5	▲ 7.7	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	*ASTM D7844	>3	0.8	---	---
Nitration	Abs/cm	*ASTM D7624	>20	5.3	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	---	---
Particles >4µm		ASTM D7647		3201	---	---
Particles >6µm		ASTM D7647	>5000	1744	---	---
Particles >14µm		ASTM D7647	>640	297	---	---
Particles >21µm		ASTM D7647	>160	100	---	---
Particles >38µm		ASTM D7647	>40	15	---	---
Particles >71µm		ASTM D7647	>10	2	---	---
Oil Cleanliness		ISO 4406 (c)	>19/16	18/15	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---	---
Sodium	ppm	ASTM D5185m		2	---	---
Boron	ppm	ASTM D5185m		325	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		76	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		349	---	---
Calcium	ppm	ASTM D5185m		1264	---	---
Phosphorus	ppm	ASTM D5185m	760	973	---	---
Zinc	ppm	ASTM D5185m	800	1123	---	---
Sulfur	ppm	ASTM D5185m	3000	3484	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.6	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	10	7.54	---	---
Visc @ 100°C	cSt	ASTM D445	14.6	▲ 11.1	---	---

Fuel Dilution

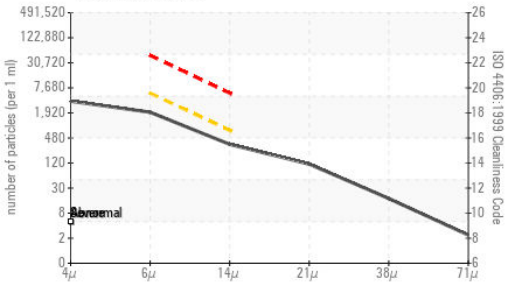


Viscosity @ 100°C

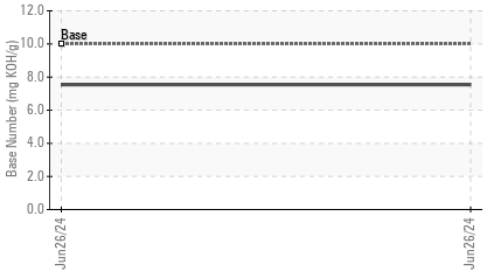
FT-IR (Direct Trend)



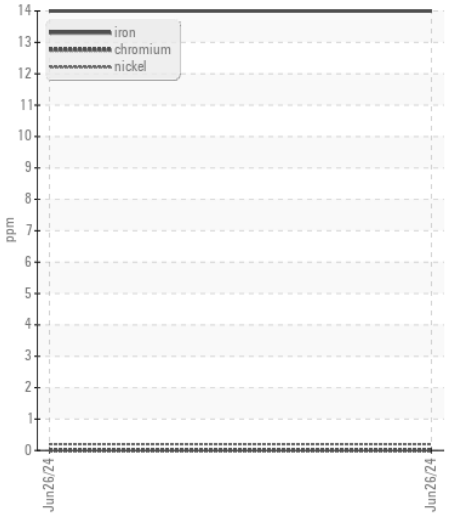
Particle Count



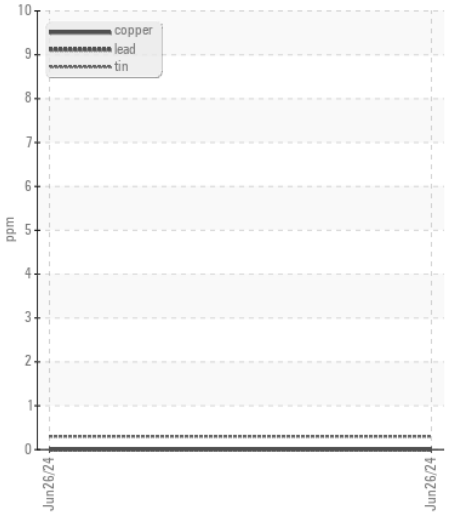
Base Number



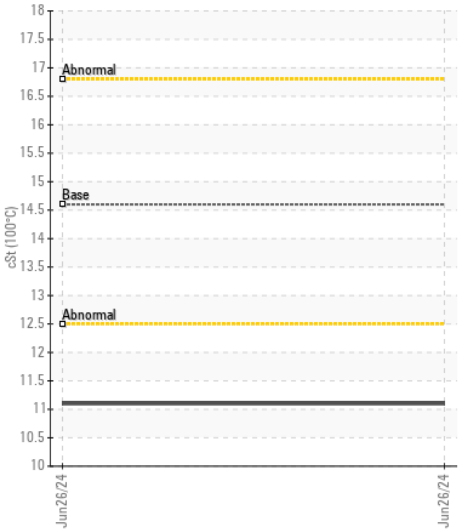
Ferrous Alloys



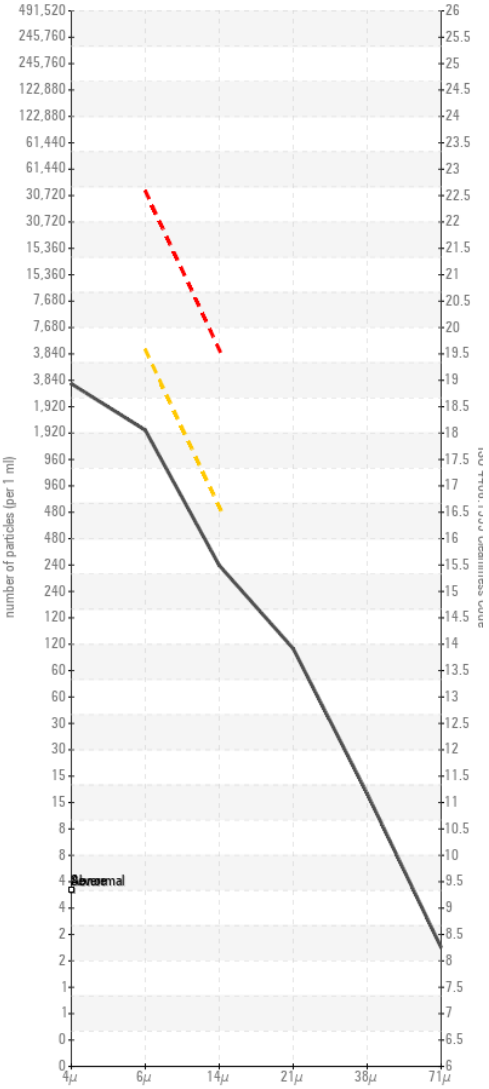
Non-ferrous Metals



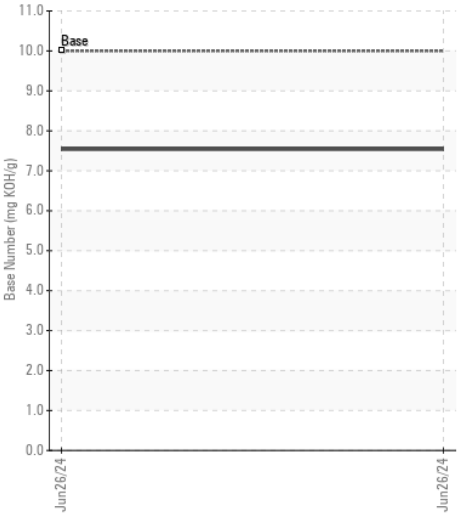
Viscosity @ 100°C



Particle Count



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0014601 **Received** : 02 Jul 2024
Lab Number : 06226442 **Tested** : 05 Jul 2024
Unique Number : 11109935 **Diagnosed** : 05 Jul 2024 - Don Baldridge
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel, PrtCount)

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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