MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id
46853351
Component
Diesel Engine
Fluid
SHELL ROTELLA T 15W40 (--- GAL)

RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

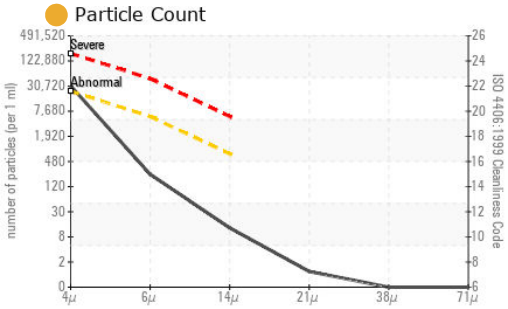
CONTAMINATION

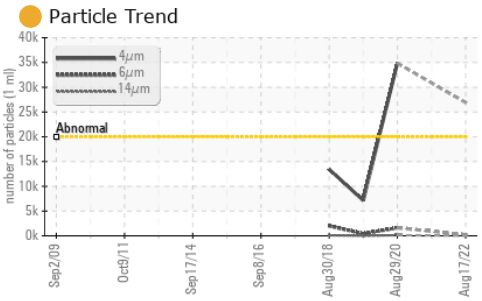
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

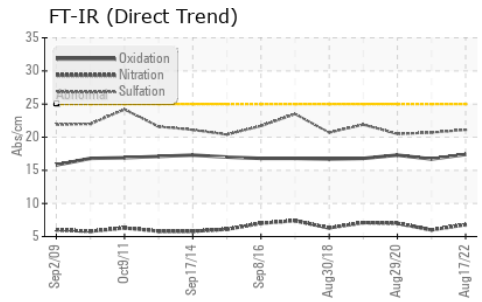
FLUID CONDITION

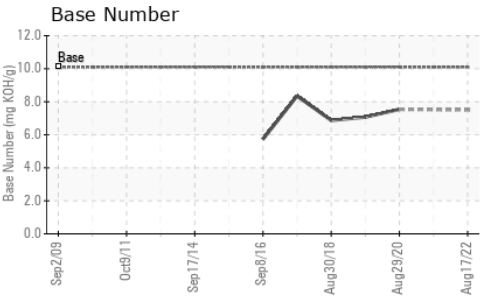
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

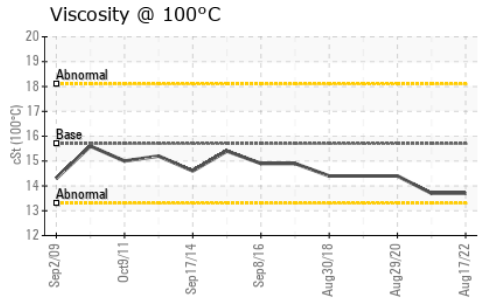
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0010065	CU0009607	KL
Sample Date		Client Info		17 Aug 2022	07 Sep 2021	29 Aug 2020
Machine Age	hrs	Client Info		2079	1976	1874
Oil Age	hrs	Client Info		205	102	279
Filter Age	hrs	Client Info		205	102	93
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	ATTENTION
Iron	ppm	ASTM D5185(m)	>90	6	4	9
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<1	0	<1
Silver	ppm	ASTM D5185(m)	>2	1	<1	2
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>40	<1	0	<1
Copper	ppm	ASTM D5185(m)	>330	8	5	9
Tin	ppm	ASTM D5185(m)	>15	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	3	2	4
Potassium	ppm	ASTM D5185(m)	>20	1	2	1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	6.8	6.0	7.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.1	20.7	20.5
Particles >4µm		ASTM D7647	>20000	26921	---	34848
Particles >6µm		ASTM D7647	>5000	209	---	1619
Particles >14µm		ASTM D7647	>640	11	---	130
Particles >21µm		ASTM D7647	>160	1	---	30
Particles >38µm		ASTM D7647	>40	0	---	2
Particles >71µm		ASTM D7647	>10	0	---	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	22/15/11	---	22/18/14
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		2	2	<1
Boron	ppm	ASTM D5185(m)	35	122	144	105
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	0	<1	<1	<1
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	10	9	9	9
Calcium	ppm	ASTM D5185(m)	2340	2111	2104	2132
Phosphorus	ppm	ASTM D5185(m)	1110	954	1044	1019
Zinc	ppm	ASTM D5185(m)	1210	1129	1144	1178
Sulfur	ppm	ASTM D5185(m)	3890	3125	3084	3122
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.4	16.7	17.3
Base Number (BN)	mg KOH/g	ASTM D2896*	10.1	7.51	---	7.54
Visc @ 100°C	cSt	ASTM D7279(m)	15.7	13.7	13.7	14.4

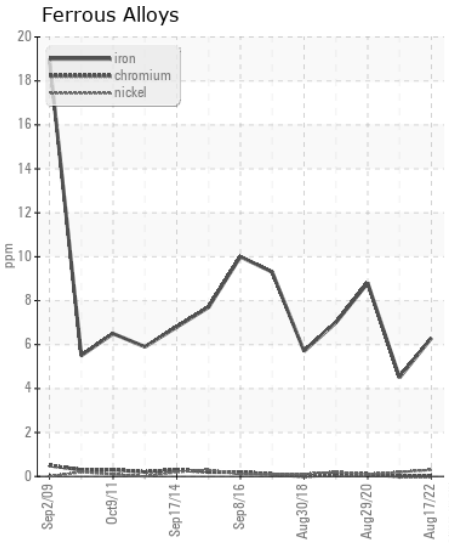


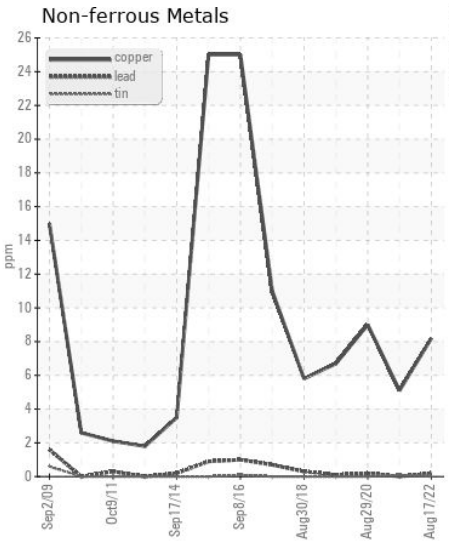


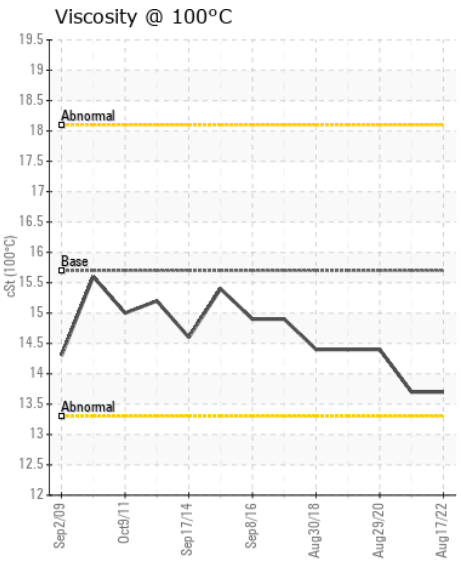


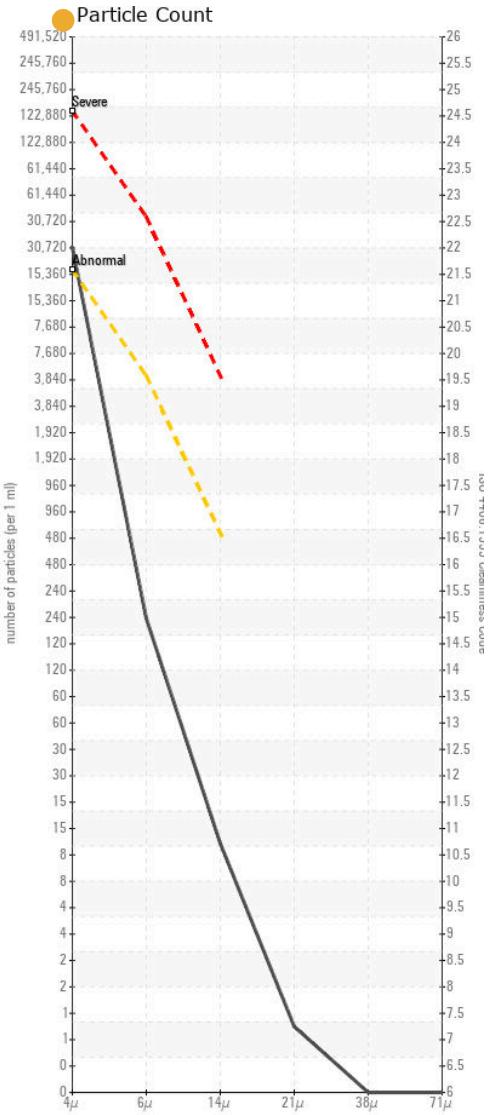


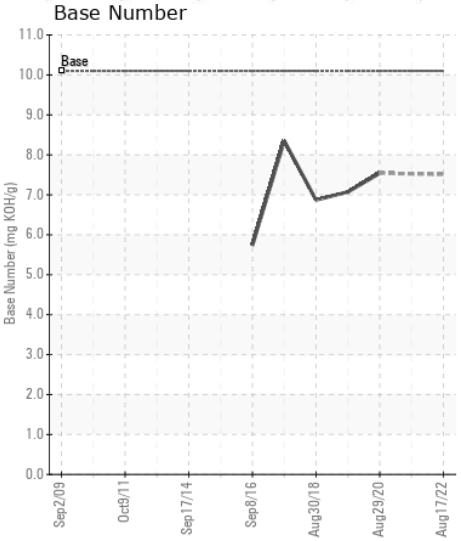












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : KL0010065 **Received** : 26 Aug 2022
Lab Number : 02507291 **Tested** : 26 Aug 2022
Unique Number : 5448261 **Diagnosed** : 26 Aug 2022 - Wes Davis
Test Package : MOB 2 (Additional Tests: PrtCount)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.

Stephen Hill
830 Megson Terrace,, Unit 606
Milton, ON
CA L9T 9M7
Contact: Stephen Hill
stephen.h.hill@gmail.com
T: (647)764-2910
F: x: