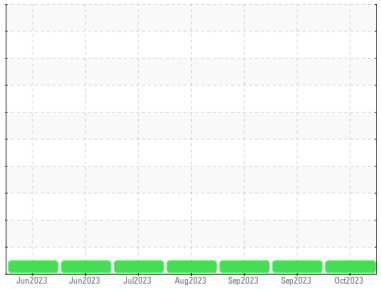
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
KDAC
Machine Id
200300
Component
Diesel Engine
Fluid
TEST OIL GOLD 4 (40 LTR)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0864665**	WC0852047	WC0852048
Sample Date		Client Info		**08 Oct 2023**	13 Sep 2023	13 Sep 2023
Machine Age	kms	Client Info		**204587**	185746	185747
Oil Age	kms	Client Info		**18843**	65349	1
Oil Changed		Client Info		**Not Changd**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	**<1.0**	<1.0	<1.0
Glycol		WC Method		**NEG**	NEG	NEG

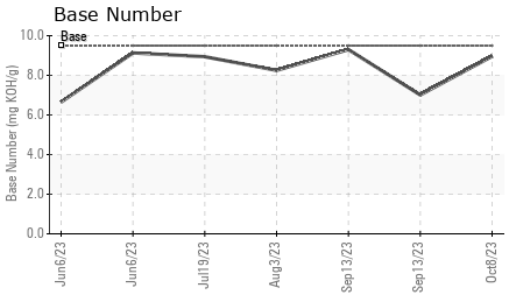
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	**13**	41	5
Chromium	ppm	ASTM D5185(m)	>20	**<1**	1	0
Nickel	ppm	ASTM D5185(m)	>15	**<1**	2	0
Titanium	ppm	ASTM D5185(m)	>2	**0**	0	0
Silver	ppm	ASTM D5185(m)	>3	**<1**	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	**6**	15	2
Lead	ppm	ASTM D5185(m)	>40	**<1**	2	0
Copper	ppm	ASTM D5185(m)	>330	**10**	51	5
Tin	ppm	ASTM D5185(m)	>15	**0**	2	0
Antimony	ppm	ASTM D5185(m)		**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

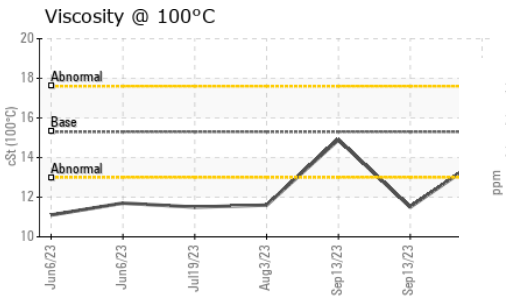
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	1	**1**	2	1
Barium	ppm	ASTM D5185(m)	0	**<1**	0	0
Molybdenum	ppm	ASTM D5185(m)	60	**60**	63	57
Manganese	ppm	ASTM D5185(m)	0	**0**	1	<1
Magnesium	ppm	ASTM D5185(m)	950	**975**	971	949
Calcium	ppm	ASTM D5185(m)	980	**1050**	1077	990
Phosphorus	ppm	ASTM D5185(m)	1100	**983**	930	1037
Zinc	ppm	ASTM D5185(m)	1150	**1174**	1146	1121
Sulfur	ppm	ASTM D5185(m)	2600	**2525**	2133	2519
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**3**	7	4
Sodium	ppm	ASTM D5185(m)		**2**	3	1
Potassium	ppm	ASTM D5185(m)	>20	**7**	33	3

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	**0.3**	1	0
Nitration	Abs/cm	ASTM D7624*	>20	**7.0**	10.5	4.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	**19.1**	22.9	17.8

OIL ANALYSIS REPORT



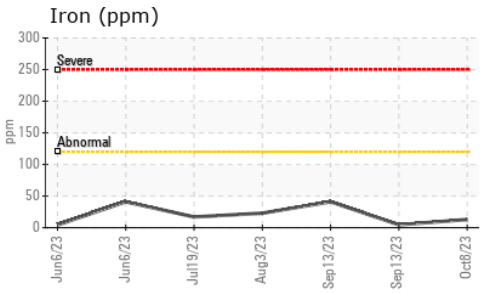


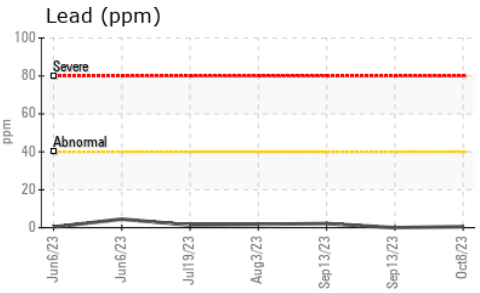
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**14.1**	17.5	12.8
Base Number (BN)	mg KOH/g	ASTM D2896*	9.5	**8.96**	7.01	9.30

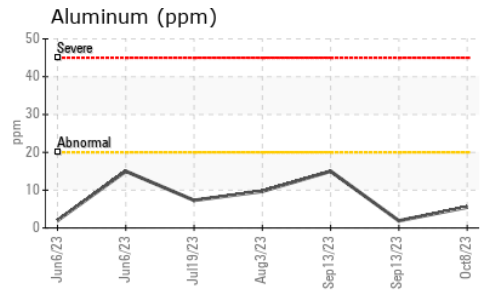
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

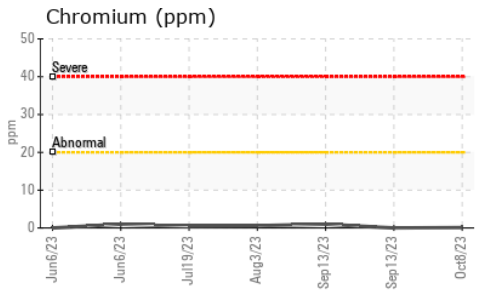
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.3	**14.0**	11.5	14.9

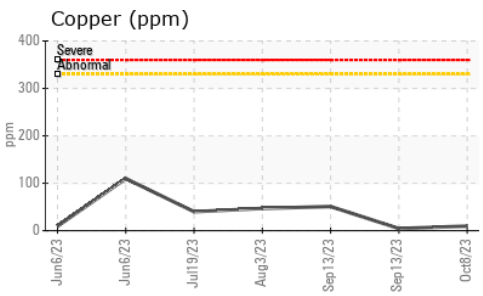
GRAPHS

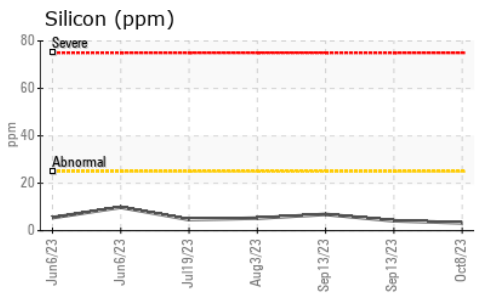


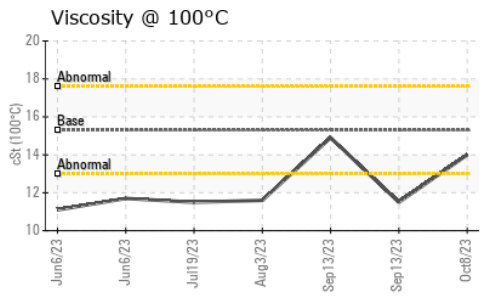


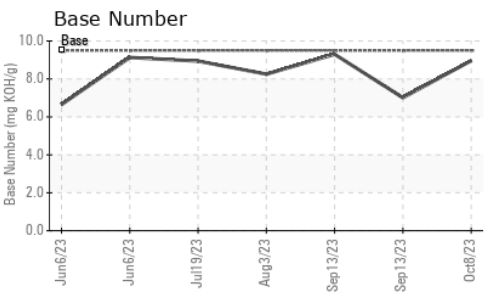












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0864665
Lab Number : 02587913
Unique Number : 5656979
Test Package : MOB 2
Received : 10 Oct 2023
Diagnosed : 12 Oct 2023
Diagnostician : Wes Davis

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.

WFR Technical Services
5389 Riverside Drive
Burlington, ON
CA L7L 3Y1
Contact: William Ridley
wfr.technical.services@gmail.com
T:
F: