MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(GMN 523) City Of Mount Pearl
Machine Id
INTERNATIONAL Side Loader Garbage Truck, 733
Component
Diesel Engine
Fluid
IRVING IDO PREMIUM PLUS 15W40 (24 LTR)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

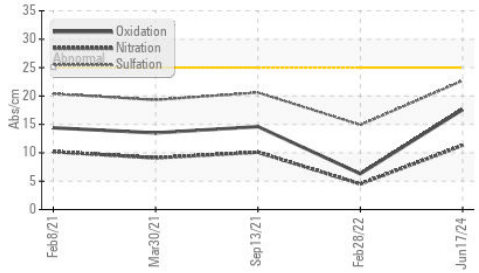
There is no indication of any contamination in the oil.

FLUID CONDITION

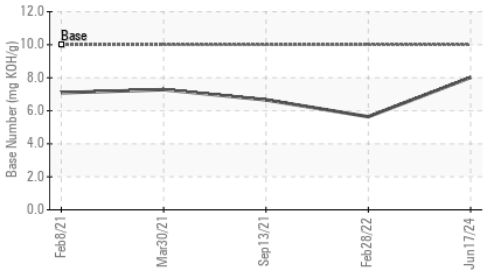
Additive levels indicate the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		OF0000721	OF0000238	OF0000240
Sample Date		Client Info		17 Jun 2024	28 Feb 2022	13 Sep 2021
Machine Age	hrs	Client Info		4750	3710	3501
Oil Age	hrs	Client Info		250	421	212
Filter Age	hrs	Client Info		250	209	86
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>100	44	25	16
Chromium	ppm	ASTM D5185(m)	>20	1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	6	9	7
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	3	3	2
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	7	10	8
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel		WC Method	>2.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.9	0	0.2
Nitration	Abs/cm	ASTM D7624*	>20	11.3	4.5	10.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.7	14.9	20.6
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		7	6	4
Boron	ppm	ASTM D5185(m)		1	16	29
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		51	12	8
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		824	144	67
Calcium	ppm	ASTM D5185(m)		1222	1993	2130
Phosphorus	ppm	ASTM D5185(m)		978	1037	1059
Zinc	ppm	ASTM D5185(m)		1183	1182	1175
Sulfur	ppm	ASTM D5185(m)		2520	3181	3374
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.6	6.3	14.6
Base Number (BN)	mg KOH/g	ASTM D2896*	10	8.02	5.64	6.66
Visc @ 100°C	cSt	ASTM D7279(m)	15.3	13.4	14.3	14.2

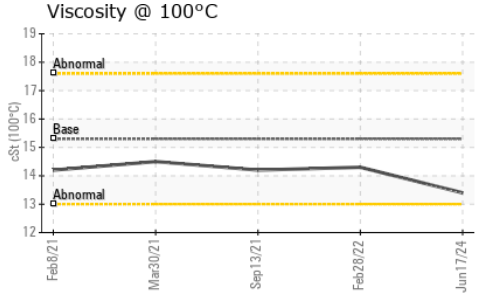
FT-IR (Direct Trend)



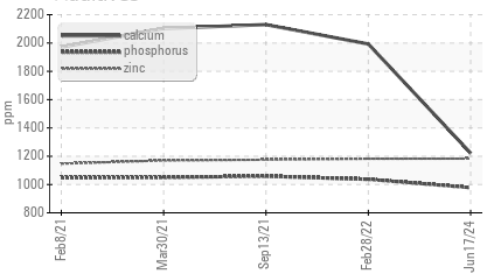
Base Number



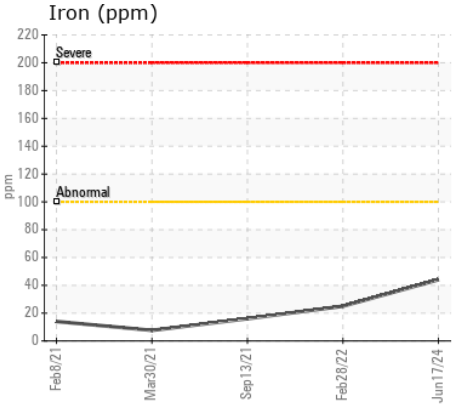
Viscosity @ 100°C



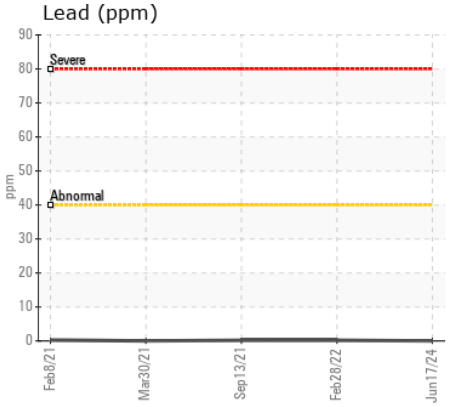
Additives



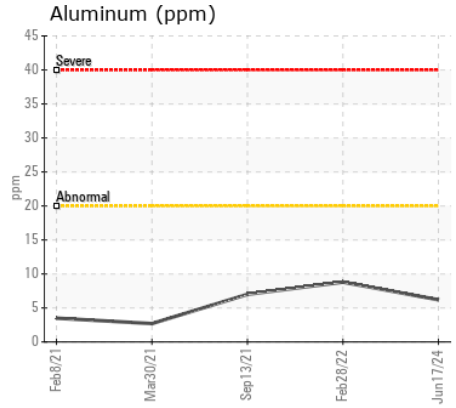
Iron (ppm)



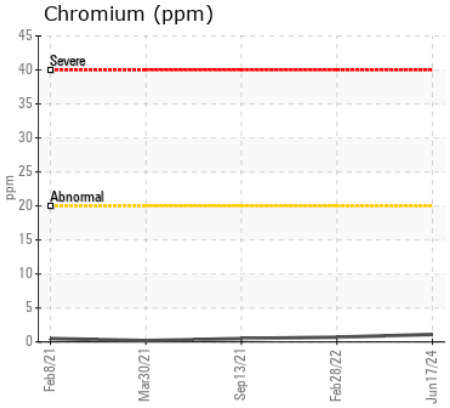
Lead (ppm)



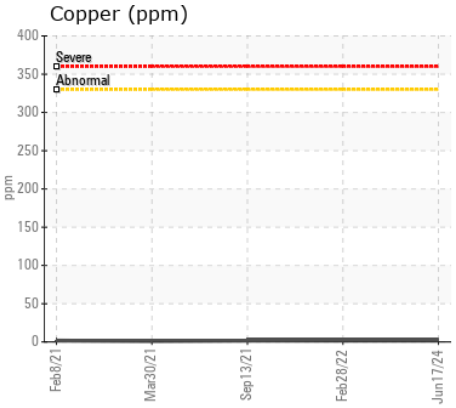
Aluminum (ppm)



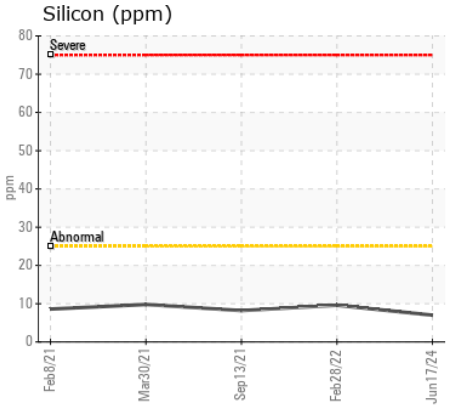
Chromium (ppm)



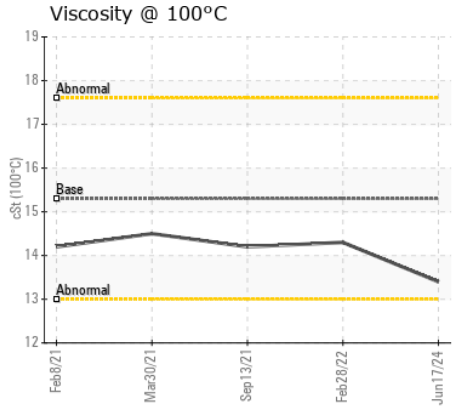
Copper (ppm)



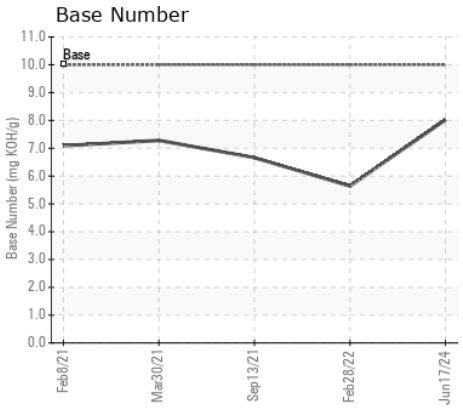
Silicon (ppm)



Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : OF0000721
Lab Number : 02644139
Unique Number : 5801678
Test Package : MOB 2

Received : 26 Jun 2024
Tested : 26 Jun 2024
Diagnosed : 26 Jun 2024 - 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.

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