MOB I WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
L1355
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

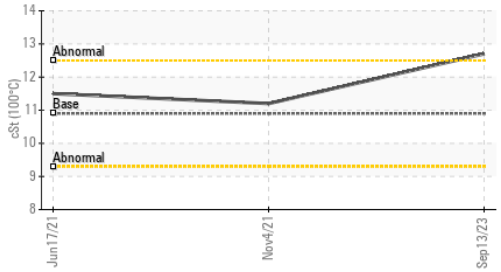
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

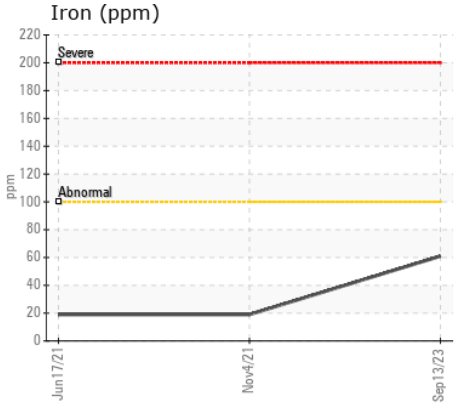
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0737850	WC0553562	WC0553664
Sample Date		Client Info		13 Sep 2023	04 Nov 2021	17 Jun 2021
Machine Age	kms	Client Info		142778	55868	44883
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>100	61	19	19
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	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	7	3	6
Lead	ppm	ASTM D5185(m)	>40	6	9	13
Copper	ppm	ASTM D5185(m)	>330	51	294	454
Tin	ppm	ASTM D5185(m)	>15	1	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	<1
Silicon	ppm	ASTM D5185(m)	>25	9	7	8
Potassium	ppm	ASTM D5185(m)	>20	3	3	2
Fuel		WC Method	>5	<1.0	0.5	0.4
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	1.3	0.2	0.3
Nitration	Abs/cm	ASTM D7624*	>20	14.9	10.6	12.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.4	21.2	21.6
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		5	4	3
Boron	ppm	ASTM D5185(m)	250	24	66	112
Barium	ppm	ASTM D5185(m)	10	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	100	54	13	37
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	678	754	712
Calcium	ppm	ASTM D5185(m)	3000	1651	1344	1441
Phosphorus	ppm	ASTM D5185(m)	1150	757	769	731
Zinc	ppm	ASTM D5185(m)	1350	873	823	842
Sulfur	ppm	ASTM D5185(m)	4250	2545	2459	2453
Oxidation	Abs/.1mm	ASTM D7414*	>25	23.0	16.1	18.4
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	12.7	11.2	11.5

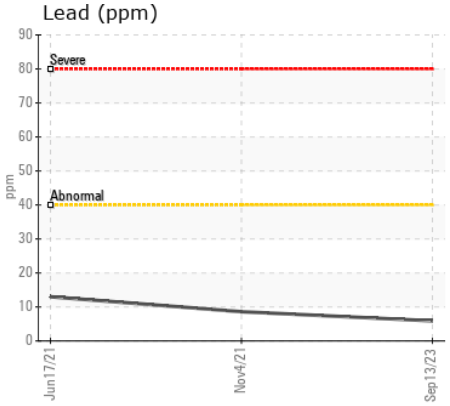
Viscosity @ 100°C



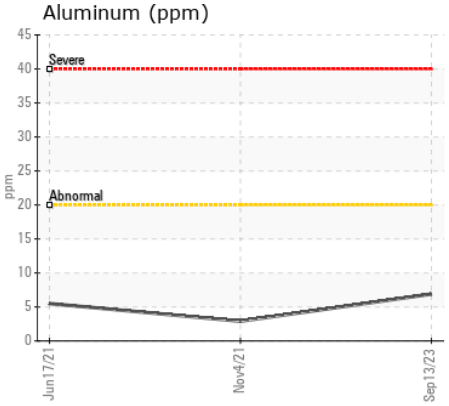
Iron (ppm)



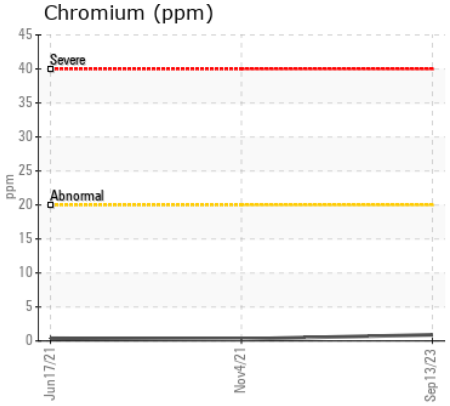
Lead (ppm)



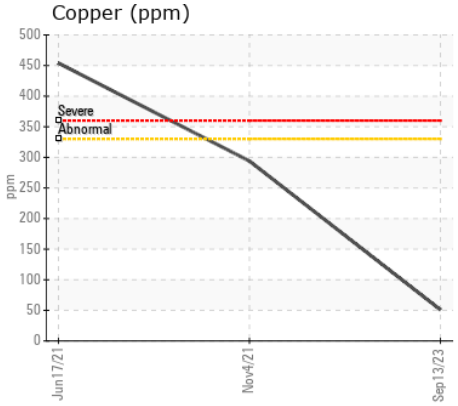
Aluminum (ppm)



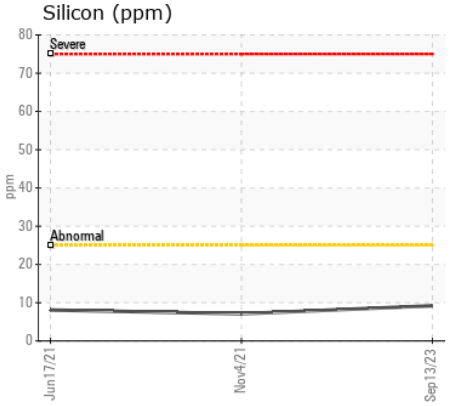
Chromium (ppm)



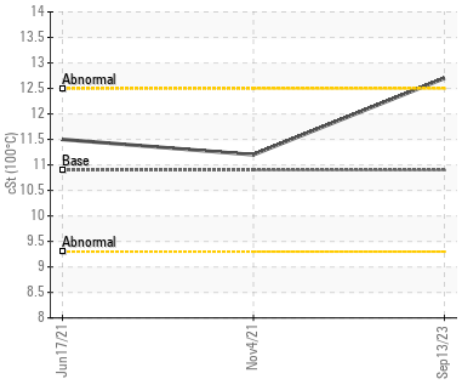
Copper (ppm)



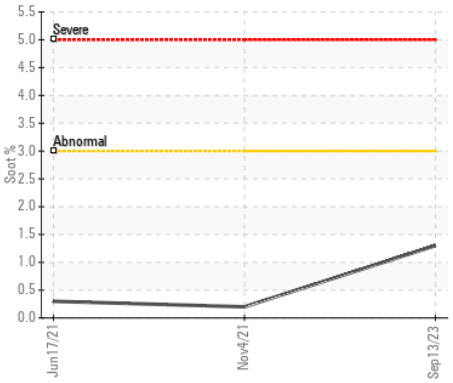
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: WC0737850	**Recieved**	: 12 Jan 2024
Lab Number	: 02608453	**Diagnosed**	: 15 Jan 2024
Unique Number	: 5709539	**Diagnostician**	: Wes Davis
Test Package	: MOB 1		

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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.