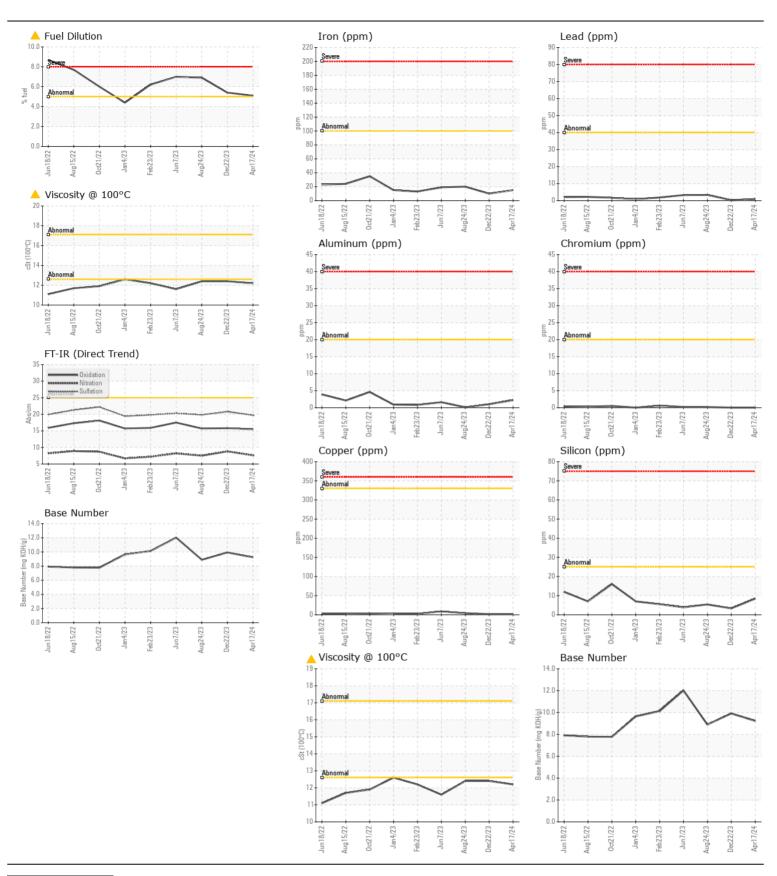
WEAR CONTAMINATION FLUID CONDITION

NORMAL
ABNORMAL
ABNORMAL

**CRUSHERPRI** 

KLEEMAN MC 120-Z 05-05020-011

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.	Sample Number		Client Info		LP0000002	LP0000013	LP0000156
	Sample Date		Client Info		17 Apr 2024	22 Dec 2023	24 Aug 2023
	Machine Age	hrs	Client Info		9456	8890	8562
	Oil Age	hrs	Client Info		2347	1781	1453
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	Not Chango
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	15	10	20
WEAR	Chromium	ppm	ASTM D5185m		0	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	1	<1
	Lead	ppm	ASTM D5185m		<1	<1	3
	Copper	ppm	ASTM D5185m	>330	2	2	4
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	0:::		AOTM DE405	05	•		
CONTAMINATION	Silicon	ppm	ASTM D5185m		8	3	5
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185m		0	<1	1
	Fuel	%	ASTM D3524	>5	▲ 5.1	▲ 5.4	▲ 6.9
	Water		WC Method	>0.2	NEG	NEG NEG	NEG NEG
	Glycol Soot %	%	*ASTM D7844	. 2	NEG 0.3	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	7.6	8.8	7.5
	Sulfation	Abs/.1mm	*ASTM D7415		19.7	20.8	19.8
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
ELUID CONDITION	0 "		AOTA DE CO				
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	0	2
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m		18	5	4
	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m		56	56	57
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium Calcium	ppm	ASTM D5185m		827 1165	929	943
		ppm	ASTM D5185m ASTM D5185m		1165	1008 1017	934
	Phosphorus Zinc	ppm	ASTM D5185m		1010 1179	1208	1182
	Sulfur	ppm	ASTM D5185m		3279	2935	3366
		(7) 71 11	UCOTO INI DOTO		32/9	2300	3300
				<b>-25</b>			
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414	>25	15.5 9.23	15.8 9.91	15.7 8.89





Certificate L2367

Laboratory Sample No.

Lab Number : 06176227

: LP0000002

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** 

Unique Number : 11022280 Diagnosed

Test Package: MOB 2 (Additional Tests: PercentFuel) 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.

**HAYNES MATERIALS** 

220-2F MAIN ST OXFORD, CT US 06478

Contact: AMANDA BOWLEY abowley@haynesmaterials.com

T: (203)888-8186

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: 10 May 2024

: 15 May 2024 : 15 May 2024 - Wes Davis

F: