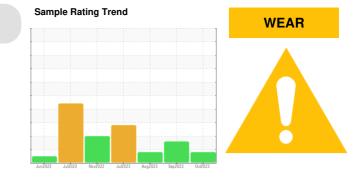
PROBLEM SUMMARY

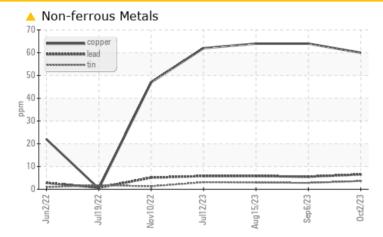


Machine to MRC-205 Component Compressor Fluid LO-ASH ENGINE OIL SAE 40 (--- GAL)

COMPONENT CONDITION SUMMARY

TULCO WEATERK

JAL NM



RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL	
Copper	ppm	ASTM D5185m	>50	<u> </u>	6 4	6 4	

Customer Id: EOGMID Sample No.: TO60001481 Lab Number: 05980486 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

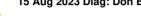
HISTORICAL DIAGNOSIS

06 Sep 2023 Diag: Jonathan Hester



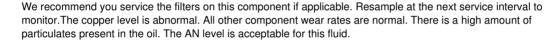
No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

15 Aug 2023 Diag: Don Baldridge



No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



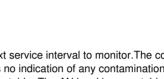




view report

view report

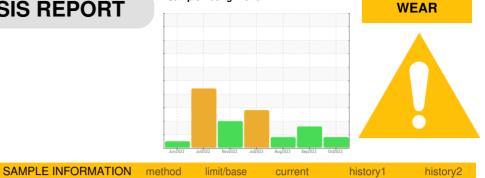






OIL ANALYSIS REPORT

Sample Rating Trend



history2

current

Compressor Fluid LO-ASH ENGINE OIL SAE 40 (--- GAL)

DIAGNOSIS

JAL NM

MRC-205 Component

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

A Wear

The copper level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

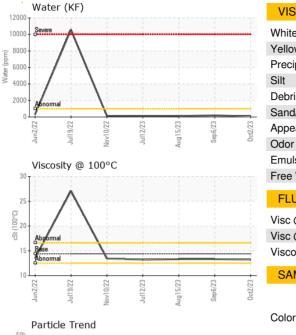
SAMPLE INFORM	VIATION	method	limit/base	current	nistory i	nistory2
Sample Number		Client Info		TO60001481	TO60001446	TO60001181
Sample Date		Client Info		02 Oct 2023	06 Sep 2023	15 Aug 2023
Machine Age	hrs	Client Info		19739	19115	18591
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	2	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	,	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	1	0	0
Lead	ppm	ASTM D5185m	>25	6	6	6
Copper	ppm	ASTM D5185m		▲ 60	<u> </u>	<u></u> 64
Tin	ppm	ASTM D5185m	>15	4	3	3
Vanadium	ppm	ASTM D5185m	210	0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
	ppm		line it /le e e e		-	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	37	62	68	68
Barium	ppm	ASTM D5185m	12	0	0	0
Molybdenum	ppm	ASTM D5185m	200	<1	2	2
Manganese	ppm	ASTM D5185m	_	<1	<1	0
Magnesium	ppm	ASTM D5185m	5	14	11	8
Calcium	ppm	ASTM D5185m	1600	1310	1217	1321
Phosphorus	ppm	ASTM D5185m	300	290	275	294
Zinc	ppm	ASTM D5185m		383	318	332
Sulfur	ppm	ASTM D5185m	2600	1957	1935	2042
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	1	2	<1
Sodium	ppm	ASTM D5185m		<1	4	3
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water	%	ASTM D6304		0.008	0.019	0.011
ppm Water	ppm	ASTM D6304	>1000	80.1	196.1	119.9
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	552	9803	1495
Particles >6µm		ASTM D7647		168	<u> </u>	408
Particles >14µm		ASTM D7647	>320	14	101	66
Particles >21µm		ASTM D7647		4	19	34
Particles >38µm		ASTM D7647	>20	0	0	5
Particles >71µm		ASTM D7647	>4	0	0	2
Oil Cleanliness		ISO 4406 (c)	>20/18/15	16/15/11	▲ 20/19/14	18/16/13
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.65	0.758	0.502

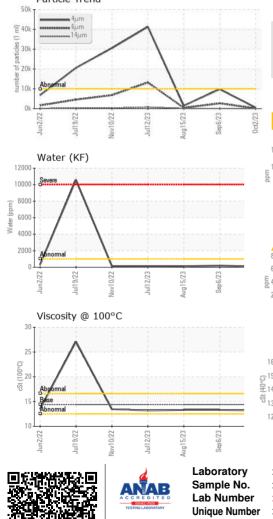
Submitted By: JAVIER FRANCO



OIL ANALYSIS REPORT

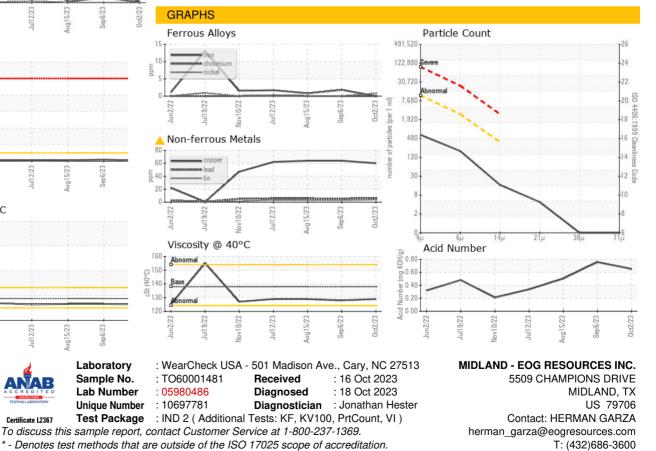
Bottom





VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	138	129	128	129
Visc @ 100°C	cSt	ASTM D445	14.4	13.2	13.3	13.3
Viscosity Index (VI)	Scale	ASTM D2270	102	95	97	97
SAMPLE IMAGES		method	limit/base	current	history1	history2





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

Certificate L2367

Submitted By: JAVIER FRANCO

Page 4 of 4

F: