

PROBLEM SUMMARY



COMPONENT CONDITION SUMMARY









no image

no image

RECOMMENDATION

PROBLEMATIC TEST RESULTS											
Sample Status				SEVERE	NORMAL	ABNORMAL					
Nickel	ppm	ASTM D5185(m)	>15	<u> </u>	<1	<1					
Lead	ppm	ASTM D5185(m)	>100	<u> </u>	1	1					
Copper	ppm	ASTM D5185(m)	>200	A 1521	22	25					
Tin	ppm	ASTM D5185(m)	>25	4 218	8	8					
Yellow Metal	scalar	Visual*	NONE	A MDHVY	NONE	NONE					
				A CONTRACT OF							

PrtFilter

Customer Id: MACPEM Sample No.: WC0857970 Lab Number: 02630012 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 <u>gloria.gonzalez@wearcheck.com</u>

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



14 Sep 2023 Diag: Bill Quesnel

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





15 Jun 2023 Diag: Kevin Marson

13 Dec 2019 Diag: Kevin Marson

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 680 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



DEGRADATION



We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. The high AN level of the oil indicates the presence of oxi-polymerized products. The AN level is much higher than the recommended limit. Viscosity of sample indicates oil is within ISO 680 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil is no longer serviceable.





Area

Machine Id

OIL ANALYSIS REPORT

VISUAL METAL

Sample Rating Trend

11-0040-010-040 SANDER#2 GEARBOX#4 Component 11 Gearbox

ESSO CYLESSTIC TK 680 (1 LTR)

DIAGNOSIS

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0857970	WC0820659	WC0820642
Sample Date		Client Info		11 Mar 2024	14 Sep 2023	15 Jun 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	ABNORMAL
CONTAMINATION	I	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		82	0	0
Iron	ppm	ASTM D5185(m)	>200	129	21	20
Chromium	ppm	ASTM D5185(m)	>15	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>15	<u> </u>	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	4	<1	<1
Lead	ppm	ASTM D5185(m)	>100	<u> </u>	1	1
Copper	ppm	ASTM D5185(m)	>200	1 521	22	25
Tin	ppm	ASTM D5185(m)	>25	A 218	8	8
Antimony	ppm	ASTM D5185(m)	>5	0	0	<1
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
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		1	0	0
Magnesium	ppm	ASTM D5185(m)		<1	0	0
Calcium	ppm	ASTM D5185(m)		3	<1	<1
Phosphorus	ppm	ASTM D5185(m)		132	42	44
Zinc	ppm	ASTM D5185(m)		8	2	2
Sulfur	ppm	ASTM D5185(m)		93920	3954	4177
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	11	4	4
Sodium	ppm	ASTM D5185(m)		3	1	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	1	2
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		2.48	3.01	2.82



60

400

300

20

lec]

ug28/05

cSt (500

OIL ANALYSIS REPORT





Laboratory Test Package : IND 2 (Additional Tests: BottomAnalysis, FILTERPATCH, TAN Man) 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.

800

600

400

200

cSt (40°C)

Sep14/23

Laboratory

Sample No.

Lab Number

T: (613)732-3939 F: (613)732-2869

danielh@rfpco.com

Report Id: MACPEM [WCAMIS] 02630012 (Generated: 04/19/2024 14:36:01) Rev: 1

Feb15/1

CALA

ISO 17025:2017 Accredited

Contact/Location: Dan Havis - MACPEM