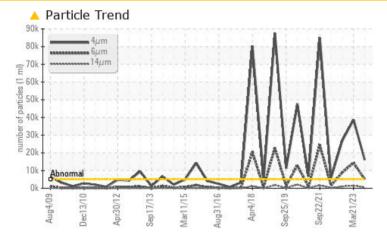


# **PROBLEM SUMMARY**

#### Area OPK/CL05 Machine Id 101811 Calander Component

Hydraulic System Fluid ESSO TERESSO ISO 32 (80 LTR)

### COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

We advise that you check for visible metal particles in the oil. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

#### **PROBLEMATIC TEST RESULTS** Sample Status ABNORMAL SEVERE ABNORMAL Particles >4µm ASTM D7647 >5000 16077 ▲ 38724 ▲ 26936 Particles >6µm ASTM D7647 >1300 5160 14330 ▲ 8915 Particles >14µm ASTM D7647 >160 486 1524 941 Particles >21µm ASTM D7647 >40 **1**39 443 **2**78 **Oil Cleanliness A** 22/20/17 ISO 4406 (c) >19/17/14 21/20/16 22/21/18 White Metal scalar Visual\* NONE 🔺 VLITE NONE NONE PrtFilter no image no image

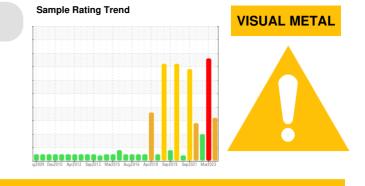
Customer Id: MITWAT Sample No.: WC0790683 Lab Number: 02588900 Test Package: IND 2



To manage this report scan the QR code

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

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



DECOM		ACTIONS
	NENDED	ACTIONS

Action	Status	Date	Done By	Description
Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.
Resample			?	We recommend an early resample to monitor this condition.
Check For Visual Metal			?	We advise that you check for visible metal particles in the oil.
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

#### HISTORICAL DIAGNOSIS



#### 21 Mar 2023 Diag: Wes Davis

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.All component wear rates are normal. Particles >14 $\mu$ m are severely high. Particles >21 $\mu$ m are severely high. Particles >6 $\mu$ m are severely high. Oil Cleanliness are severely high. Particles >4 $\mu$ m are abnormally high. Particles >38 $\mu$ m are notably high. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.





#### 06 Apr 2022 Diag: Wes Davis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.All component wear rates are normal. Particles >14 $\mu$ m are abnormally high. Particles >21 $\mu$ m are abnormally high. Particles >4 $\mu$ m are abnormally high. Particles >38 $\mu$ m are abnormally high. Particles >6 $\mu$ m are abnormally high. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### 23 Mar 2022 Diag: Kevin Marson



Due to this condition we recommend the following action... We advise an early resample to confirm this situation. NOTE: The current sample results do not match this units historical trend, indicating the sample may not be from this component/unit.All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. Viscosity of sample indicates oil is within ISO 320 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.





## **OIL ANALYSIS REPORT**

#### Sample Rating Trend

#### **VISUAL METAL**

### OPK/CL05 101811 Calander Component

### **Hydraulic System** ESSO TERESSO ISO 32 (80 LTR)

#### DIAGNOSIS

#### Recommendation

We advise that you check for visible metal particles in the oil. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

#### A Wear

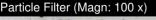
Light concentration of visible metal present.

#### Contamination

There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid.





............

Sample Date         Client Info         03 Oct 2023         21 Mar 2023         06 Apr 2           Machine Age         hrs         Client Info         0         0         0         0           Oil Age         hrs         Client Info         0         0         0         0         0           Oil Changed         Client Info         N/A         N/A         N/A         N/A           Sample Status         method         limit/base         current         history1         history1           VEAR METALS         method         limit/base         current         history1         history1           Nickel         ppm         ASTM 05185(m)         >20         c1         0         0           Nickel         ppm         ASTM 05185(m)         >20         c1         1         0         0           Nickel         ppm         ASTM 05185(m)         >20         c1         1         0         1         1           Lead         ppm         ASTM 05185(m)         >20         0         0         0         0           Vanadium         ppm         ASTM 05185(m)         0         0         0         0         0         0           Ca	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         0         0         0         0           Oil Age         hrs         Client Info         N/A         N/A         N/A           Sample Status         Image         Image         Current         history1         history1           WEAR METALS         method         Image         current         history1         history1           Iron         ppm         ASTMD518(m)         >20         <1	Sample Number		Client Info		WC0790683	WC0763703	WC0651600
Oil Age         hrs         Client Info         0         0         0           Oil Changed         Client Info         N/A         N/A         N/A         N/A           Sample Status         Immethod         limit/base         current         history1         history1           VEAR METALS         method         limit/base         current         history1         history1           Chromium         ppm         ASTM D5185(m)         >20         0         0         0           Nickel         ppm         ASTM D5185(m)         >20         c1         0         c1           Aluminum         ppm         ASTM D5185(m)         >20         c1         0         c1           Lead         ppm         ASTM D5185(m)         >20         c1         0         c1           Lead         ppm         ASTM D5185(m)         >20         0         0         0           Cadmium         ppm         ASTM D5185(m)         20         0         0         0           Cadmium         ppm         ASTM D5185(m)         0         0         0         0           Cadmium         ppm         ASTM D5185(m)         0         0         0         0<	Sample Date		Client Info		03 Oct 2023	21 Mar 2023	06 Apr 2022
Oil Changed         Client Info         N/A         N/A         N/A         N/A           Sample Status         method         Imit/base         current         history1         history1           WEAR METALS         method         Imit/base         current         history1         history1           Iron         ppm         ASTU DS185(m)         >20         <1         <1         0           Chromium         ppm         ASTU DS185(m)         >20         <1         0         0           Nickel         ppm         ASTU DS185(m)         >20         <1         0         0           Silver         ppm         ASTU DS185(m)         >20         <1         0         0           Copper         ppm         ASTU DS185(m)         >20         0         0         0           Antimony         ppm         ASTU DS185(m)         >20         0         0         0           Antimony         ppm         ASTU DS185(m)         0         0         0         0           Antimony         ppm         ASTU DS185(m)         0         0         0         0           Antimony         ppm         ASTU DS185(m)         0         0	Machine Age	hrs	Client Info		0	0	0
Sample Status         method         Imit/base         current         history1         history1           WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185(m)         >20         <1	Oil Age	hrs	Client Info		0	0	0
WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185(m)         >20         <1	Oil Changed		Client Info		N/A	N/A	N/A
Iron         ppm         ASTM D5185(m)         >20         <1         <1         0           Nickel         ppm         ASTM D5185(m)         >20         0         0         0           Nickel         ppm         ASTM D5185(m)         >20         <1	Sample Status				ABNORMAL	SEVERE	ABNORMAL
Chromium         ppm         ASTM D5185(m)         >20         0         0         0           Nickel         ppm         ASTM D5185(m)         >20         <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel         ppm         ASTM D5185(m)         >20         <1         0         <1           Titanium         ppm         ASTM D5185(m)         0         0         0         0           Silver         ppm         ASTM D5185(m)         >20         <1	Iron	ppm	ASTM D5185(m)	>20	<1	<1	0
Titanium         ppm         ASTM D5185(m)         0         0         0           Silver         ppm         ASTM D5185(m)         <1	Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Silver         ppm         ASTM D5185(m)         <         <1         0         0           Aluminum         ppm         ASTM D5185(m)         >20         <1	Nickel	ppm	ASTM D5185(m)	>20	<1	0	<1
Aluminum         ppm         ASTM D5185(m)         >20         <1         1         <1           Lead         ppm         ASTM D5185(m)         >20         0         <1	Titanium	ppm	ASTM D5185(m)		0	0	0
Lead         ppm         ASTM D5185(m)         >20         0         <1	Silver	ppm	ASTM D5185(m)		<1	0	0
Copper         ppm         ASTM D5185(m)         >20         <1         0         <1           Tin         ppm         ASTM D5185(m)         >20         0         0         0           Antimony         ppm         ASTM D5185(m)         0         0         0         0           Vanadium         ppm         ASTM D5185(m)         0         0         0         0           Beryllium         ppm         ASTM D5185(m)         0         0         0         0           ADDITIVES         method         limit/base         current         history1         histor           Boron         ppm         ASTM D5185(m)         <1	Aluminum	ppm	ASTM D5185(m)	>20	<1	1	<1
Tin         ppm         ASTM D5185(m)         >20         0         0         0           Antimony         ppm         ASTM D5185(m)         0         0         0         0           Vanadium         ppm         ASTM D5185(m)         0         0         0         0           Beryllium         ppm         ASTM D5185(m)         0         0         0         0           ADDITIVES         method         limit/base         current         history1         history1           Boron         ppm         ASTM D5185(m)         <1	Lead	ppm	ASTM D5185(m)	>20	0	<1	0
Antimony         ppm         ASTM D5185(m)         0         0         0         0           Vanadium         ppm         ASTM D5185(m)         0         0         0         0           Beryllium         ppm         ASTM D5185(m)         0         0         0         0           Cadmium         ppm         ASTM D5185(m)         0         0         0         0           ADDITIVES         method         limit/base         current         history1         histor           Barium         ppm         ASTM D5185(m)         <1	Copper	ppm	ASTM D5185(m)	>20	<1	0	<1
VanadiumppmASTM D5185(m)000BerylliumppmASTM D5185(m)000CadmiumppmASTM D5185(m)000ADDITIVESmethodlimit/basecurrenthistory1history1BariumppmASTM D5185(m)<1	Tin	ppm	ASTM D5185(m)	>20	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         histor           Boron         ppm         ASTM D5185(m)         <1	Antimony	ppm	ASTM D5185(m)		0	0	0
Cadmium         ppm         ASTM D5185(m)         0         0         0           ADDITIVES         method         limit/base         current         history1         history1           Boron         ppm         ASTM D5185(m)         <1         0         <1           Barium         ppm         ASTM D5185(m)         <1         0         <1           Barium         ppm         ASTM D5185(m)         0         0         0         0           Molybdenum         ppm         ASTM D5185(m)         0         0         0         0           Magnesium         ppm         ASTM D5185(m)         0         0         0         0         0           Calcium         ppm         ASTM D5185(m)         2         2         2         2         2           Contram         ppm         ASTM D5185(m)         2         2         2         2           Sulfur         ppm         ASTM D5185(m)         2         2         2         2           Sulfur         ppm         ASTM D5185(m)         20         1         1         1           CONTAMINANTS         method         limit/base         current         history1         history1<	Vanadium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES         method         limit/base         current         history1         history1           Boron         ppm         ASTM D5185(m)         <1	Beryllium	ppm	ASTM D5185(m)		0	0	0
Boron         ppm         ASTM D5185(m)         <1         0         <1           Barium         ppm         ASTM D5185(m)         0         0         0           Molybdenum         ppm         ASTM D5185(m)         0         0         0           Manganese         ppm         ASTM D5185(m)         0         0         0           Magnesium         ppm         ASTM D5185(m)         0         0         0           Calcium         ppm         ASTM D5185(m)         2         2         2           Phosphorus         ppm         ASTM D5185(m)         2         2         2           Sulfur         ppm         ASTM D5185(m)         1729         1669         1647           Lithium         ppm         ASTM D5185(m)         <1	Cadmium	ppm	ASTM D5185(m)		0	0	0
Barium         ppm         ASTM D5185(m)         <1         0         0           Molybdenum         ppm         ASTM D5185(m)         0         0         0           Manganese         ppm         ASTM D5185(m)         0         0         0           Magnesium         ppm         ASTM D5185(m)         0         0         0           Calcium         ppm         ASTM D5185(m)         2         2         2           Phosphorus         ppm         ASTM D5185(m)         2         2         2           Zinc         ppm         ASTM D5185(m)         2         2         2           Sulfur         ppm         ASTM D5185(m)         1729         1669         1647           Lithium         ppm         ASTM D5185(m)         <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185(m)         0         0         0           Manganese         ppm         ASTM D5185(m)         0         0         0           Magnesium         ppm         ASTM D5185(m)         0         0         0           Calcium         ppm         ASTM D5185(m)         2         0         2           Phosphorus         ppm         ASTM D5185(m)         2         2         2           Zinc         ppm         ASTM D5185(m)         1729         1669         1647           Lithium         ppm         ASTM D5185(m)         1729         1669         1647           Lithium         ppm         ASTM D5185(m)         1         <1	Boron	ppm	ASTM D5185(m)		<1	0	<1
Manganese         ppm         ASTM D5185(m)         0         0         0         0           Magnesium         ppm         ASTM D5185(m)         0         1647         1647         1647         1         <1	Barium	ppm	ASTM D5185(m)		<1	0	0
Magnesium         ppm         ASTM D5185(m)         0         0         0           Calcium         ppm         ASTM D5185(m)         2         0         2           Phosphorus         ppm         ASTM D5185(m)         2         2         2           Zinc         ppm         ASTM D5185(m)         2         2         2           Sulfur         ppm         ASTM D5185(m)         1729         1669         1647           Lithium         ppm         ASTM D5185(m)         <1	Molybdenum	ppm	ASTM D5185(m)		0	0	0
Calcium       ppm       ASTM D5185(m)       2       0       2         Phosphorus       ppm       ASTM D5185(m)       2       2       2         Zinc       ppm       ASTM D5185(m)       2       2       2         Sulfur       ppm       ASTM D5185(m)       1729       1669       1647         Lithium       ppm       ASTM D5185(m)       <1	Manganese	ppm	ASTM D5185(m)		0	0	0
Phosphorus         ppm         ASTM D5185(m)         2         2         2           Zinc         ppm         ASTM D5185(m)         2         2         2           Sulfur         ppm         ASTM D5185(m)         1729         1669         1647           Lithium         ppm         ASTM D5185(m)         <1         <1         <1         <1           CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185(m)         >15         <1	Magnesium	ppm	ASTM D5185(m)		0	0	0
Zinc       ppm       ASTM D5185(m)       2       2       2         Sulfur       ppm       ASTM D5185(m)       1729       1669       1647         Lithium       ppm       ASTM D5185(m)       <1       <1       <1       <1         CONTAMINANTS       method       limit/base       current       history1       histor         Silicon       ppm       ASTM D5185(m)       >15       <1       <1       <1       <1       <1         Sodium       ppm       ASTM D5185(m)       >15       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <	Calcium	ppm	ASTM D5185(m)		2	0	2
Sulfur         ppm         ASTM D5185(m)         1729         1669         1647           Lithium         ppm         ASTM D5185(m)         <1	Phosphorus	ppm	ASTM D5185(m)		2	2	2
Lithium         ppm         ASTM D5185(m)         <1         <1         <1         <1           CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185(m)         >15         <1         <1         <1         <1           Sodium         ppm         ASTM D5185(m)         >15         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1	Zinc	ppm	ASTM D5185(m)		2	2	2
CONTAMINANTS         method         limit/base         current         history1         histor           Silicon         ppm         ASTM D5185(m)         >15         <1	Sulfur	ppm	ASTM D5185(m)		1729	1669	1647
Silicon       ppm       ASTM D5185(m)       >15       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1 <t< td=""><td>Lithium</td><td>ppm</td><td>ASTM D5185(m)</td><td></td><th>&lt;1</th><td>&lt;1</td><td>&lt;1</td></t<>	Lithium	ppm	ASTM D5185(m)		<1	<1	<1
Sodium         ppm         ASTM D5185(m)         0         0         0         0           Potassium         ppm         ASTM D5185(m)         >20         <1         0         0           FLUID CLEANLINESS         method         limit/base         current         history1         histor           Particles >4µm         ASTM D7647         >5000         ▲ 16077         ▲ 38724         ▲ 26936           Particles >6µm         ASTM D7647         >1300         ▲ 5160         ■ 14330         ▲ 8915           Particles >14µm         ASTM D7647         >160         ▲ 486         ■ 1524         ▲ 941           Particles >21µm         ASTM D7647         >40         ▲ 1399         ● 443         ▲ 278           Particles >38µm         ASTM D7647         >10         10         ▲ 16         ▲ 32           Particles >71µm         ASTM D7647         >3         1         1         3           Oil Cleanliness         ISO 4406 (c)         >19/17/14         ▲ 21/20/16         ● 22/21/18         ▲ 22/20           FLUID DEGRADATION         method         limit/base         current         history1         history1	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185(m)         >20         <1         0         0           FLUID CLEANLINESS         method         limit/base         current         history1         history1         history1           Particles >4µm         ASTM D7647         >5000         ▲ 16077         ▲ 38724         ▲ 26936           Particles >6µm         ASTM D7647         >1300         ▲ 5160         ■ 14330         ▲ 8915           Particles >6µm         ASTM D7647         >160         ▲ 486         ■ 1524         ▲ 941           Particles >14µm         ASTM D7647         >40         ▲ 1399         ● 443         ▲ 278           Particles >38µm         ASTM D7647         >10         10         ▲ 16         32           Particles >71µm         ASTM D7647         >3         1         3         22/2016           FLUID DEGRADATION         method         limit/base         current         history1         history1	Silicon	ppm	ASTM D5185(m)	>15	<1	<1	<1
Potassium         ppm         ASTM D5185(m)         >20         <1         0         0           FLUID CLEANLINESS         method         limit/base         current         history1         history1         history1           Particles >4µm         ASTM D7647         >5000         16077         38724         26936           Particles >6µm         ASTM D7647         >1300         5160         14330         8915           Particles >14µm         ASTM D7647         >160         486         1524         941           Particles >21µm         ASTM D7647         >40         1399         443         278           Particles >38µm         ASTM D7647         >10         10         16         32           Particles >71µm         ASTM D7647         >3         1         3           Oil Cleanliness         ISO 4406 (c)         >19/17/14         21/20/16         22/21/18         22/20           FLUID DEGRADATION         method         limit/base         current         history1         history1	Sodium	ppm	ASTM D5185(m)		0	0	0
Particles >4µm       ASTM D7647       >5000       ▲ 16077       ▲ 38724       ▲ 26936         Particles >6µm       ASTM D7647       >1300       ▲ 5160       ● 14330       ▲ 8915         Particles >14µm       ASTM D7647       >160       ▲ 486       ● 1524       ▲ 941         Particles >21µm       ASTM D7647       >40       ▲ 139       ● 443       ▲ 278         Particles >38µm       ASTM D7647       >10       10       ▲ 16       ▲ 32         Particles >71µm       ASTM D7647       >3       1       1       3         Oil Cleanliness       ISO 4406 (c)       >19/17/14 <b>21/20/16</b> ● 22/21/18       ▲ 22/20         FLUID DEGRADATION       method       limit/base       current       history1       history1	Potassium	ppm	ASTM D5185(m)	>20	<1	0	0
Particles >6µm       ASTM D7647       >1300       ▲ 5160       ● 14330       ▲ 8915         Particles >14µm       ASTM D7647       >160       ▲ 486       ● 1524       ▲ 941         Particles >21µm       ASTM D7647       >40       ▲ 139       ● 443       ▲ 278         Particles >38µm       ASTM D7647       >10       10       ▲ 16       ▲ 32         Particles >38µm       ASTM D7647       >3       1       1       3         Oil Cleanliness       ISO 4406 (c)       >19/17/14       ▲ 21/20/16       ● 22/21/18       ▲ 22/20         FLUID DEGRADATION       method       limit/base       current       history1       history1	FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >14µm       ASTM D7647       >160       ▲ 486       ● 1524       ▲ 941         Particles >21µm       ASTM D7647       >40       ▲ 139       ● 443       ▲ 278         Particles >38µm       ASTM D7647       >10       10       ▲ 16       ▲ 32         Particles >71µm       ASTM D7647       >3       1       1       3         Oil Cleanliness       ISO 4406 (c)       >19/17/14       ▲ 21/20/16       ● 22/21/18       ▲ 22/20         FLUID DEGRADATION       method       limit/base       current       history1       history1	Particles >4µm		ASTM D7647	>5000	<b>16077</b>	▲ 38724	▲ 26936
Particles >21μm         ASTM D7647         >40         ▲ 139         ● 443         ▲ 278           Particles >38μm         ASTM D7647         >10         10         ▲ 16         32           Particles >71μm         ASTM D7647         >3         1         1         3           Oil Cleanliness         ISO 4406 (c)         >19/17/14         21/20/16         ● 22/21/18         ▲ 22/20           FLUID DEGRADATION         method         limit/base         current         history1         history1	Particles >6µm		ASTM D7647	>1300	<u> </u>	• 14330	▲ 8915
Particles >38μm         ASTM D7647         >10         10         ▲ 16         ▲ 32           Particles >71μm         ASTM D7647         >3         1         1         3           Oil Cleanliness         ISO 4406 (c)         >19/17/14         ▲ 21/20/16         ● 22/21/18         ▲ 22/20           FLUID DEGRADATION         method         limit/base         current         history1         history1	Particles >14µm		ASTM D7647	>160	<u> </u>	1524	<b>9</b> 41
Particles >71μm         ASTM D7647         >3         1         1         3           Oil Cleanliness         ISO 4406 (c)         >19/17/14         ▲ 21/20/16         ● 22/21/18         ▲ 22/20           FLUID DEGRADATION         method         limit/base         current         history1         history1	Particles >21µm		ASTM D7647	>40	<u> </u>	443	<b>2</b> 78
Oil Cleanliness       ISO 4406 (c) >19/17/14 ▲ 21/20/16 ● 22/21/18 ▲ 22/20         FLUID DEGRADATION       method       limit/base       current       history1       history1	Particles >38µm		ASTM D7647	>10	10	<b>1</b> 6	▲ 32
FLUID DEGRADATION method limit/base current history1 histor	Particles >71µm		ASTM D7647	>3	1	1	3
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>4</b> 21/20/16	22/21/18	▲ 22/20/17
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)         mg KOH/g         ASTM D974*         0.13         0.13         0.12	Acid Number (AN)	mg KOH/g	ASTM D974*		0.13	0.13	0.12

Report Id: MITWAT [WCAMIS] 02588900 (Generated: 10/16/2023 09:09:43) Rev: 1

Contact/Location: Alan Davies - MITWAT



Î

number of particles (per 1

Î

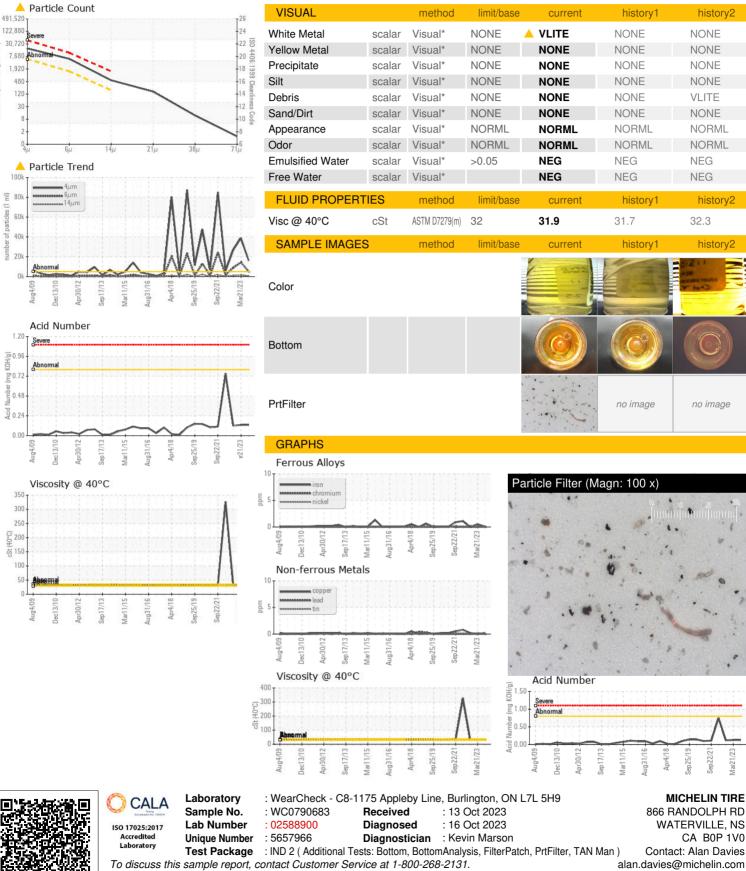
articles

ofu

40°C1

cSt (

# **OIL ANALYSIS REPORT**



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.

F: x:

T: (902)534-3590

Sep22/21 far21/23

ep25/19

history2

NONE

NONE

NONE

NONE

VLITE

NONE

NORML

NORML

history2

history2

no image

NEG

NEG

32.3