

## COMPONENT CONDITION SUMMARY







#### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	ABNORMAL	ABNORMAL		
Iron	ppm	ASTM D5185m	>800	<b>a</b> 2033	<b>908</b>	<b>A</b> 849		
Chromium	ppm	ASTM D5185m	>10	<b>4</b> 36	<b>A</b> 21	<b>1</b> 7		
Nickel	ppm	ASTM D5185m	>5	<u> </u>	3	2		
Silicon	ppm	ASTM D5185m	>400	<u> </u>	<b>A</b> 380	89		
Debris	scalar	*Visual	NONE	A MODER	NONE	NONE		

Customer Id: SHEWIC Sample No.: WC0918069 Lab Number: 06205181 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

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

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	Oil and filter change at the time of sampling has been noted.			
Change Filter			?	Oil and filter change at the time of sampling has been noted.			
Check Dirt Access			?	We advise that you check all areas where dirt can enter the system.			

### HISTORICAL DIAGNOSIS



### 14 Nov 2023 Diag: Don Baldridge

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.Gear wear is indicated. All other component wear rates are normal. There is a light concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.





#### 20 Sep 2023 Diag: Don Baldridge

No corrective action is recommended at this time. Resample at the next service interval to monitor Gear wear is indicated. All other component wear rates are normal. There is no indication of any contamination in the oil. The





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



# **OIL ANALYSIS REPORT**

Sample Rating Trend



Area KANSAS/44 Machine Id 20.022L [KANSAS^44] Right Final Drive

GEAR OIL SAE 75W140 (--- GAL)

Participant protection of an addition of a participant protection of an addition of a participant protection of a partite participant protection of a partitant protect	DIAGNOSIS	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Vé advise that you check all areas where dirt and ampling has been noted. Resample at the timo of ampling has been noted. Resample at the timo of user wear is indicated.         Citent Info         0         0         0         0           Vear lear wear is indicated.         Contamination         Citent Info         Changed         NEG         NEG <td>Recommendation</td> <td>Sample Number</td> <td></td> <td>Client Info</td> <td></td> <td>WC0918069</td> <td>WC0821613</td> <td>WC0665270</td>	Recommendation	Sample Number		Client Info		WC0918069	WC0821613	WC0665270
http://taisubal.example.at.ube.undel.nesample.at.ube.undel.ne	le advise that you check all areas where dirt can	Sample Date		Client Info		29 May 2024	14 Nov 2023	20 Sep 2023
ampling has been noted. Headam normitor. Wear iser wear is indicated. Contamination Co	enter the system. Oil and filter change at the time o	Machine Age	hrs	Client Info		0	1501	4764
Note intention         Note is indicated.         Changed         Client Info         Changed         N/A         ABNORMAL         ABNORMAL<	ampling has been noted. Resample at the next	Oil Age	hrs	Client Info		0	0	0
Wear env were is indicated.         Sample Status         SEVERE         ABNORMAL         ABNORMAL           Contamination of visible diridebris present the oil.         CONTAMINATION         method         Imit/base         current         Hetory         Nick         N	ervice interval to monitor.	Oil Changed		Client Info		Changed	Not Changd	N/A
Containination       Containination       Containination       Initiation       Initiation       Initiation         uid Condition       ne oil is no longer serviceable as a result of the oil.       Water       WCAM METALS       NEG       NEG       NEG       NEG         the oil is no longer serviceable as a result of the oil.       Water       WCAM METALS       nethod       1mitbase       current       history1       his	Wear	Sample Status				SEVERE	ABNORMAL	ABNORMAL
Containation       Containation       Value       WC Mathod       >-0.2       NEG       NEG       NEG         dorate concentration of visible diridabris present the oil.       dirid condition       ner oil is no longer serviceable as a result of the pnormal and/or severe wear.       Med and and and and and and and and and an		CONTAMINATION	J I	method	limit/base	current	history1	history2
WEAR METALS         method         Imitbase         current         Natory1	loderate concentration of visible dirt/debris present	Water		WC Method	>0.2	NEG	NEG	NEG
Iron       ppm       ASTM D5156m       >400       ▲ 2033       ▲ 908       ▲ 849         Ohromium       ppm       ASTM D5156m       >10       ▲ 36       ▲ 21       ▲ 17         Nickel       ppm       ASTM D5156m       >5       ▲ 5       3       3       2         Titanium       ppm       ASTM D5156m       >5       ▲ 5       3       3       3         Silver       ppm       ASTM D5156m       >7       4       1 <t< td=""><td>luid Condition</td><td>WEAR METALS</td><td></td><td>method</td><td>limit/base</td><td>current</td><td>history1</td><td>history2</td></t<>	luid Condition	WEAR METALS		method	limit/base	current	history1	history2
normal and/or severe wear.     Chromium     ppm     ASTM 05156m     >3     >11     >17       Nickel     ppm     ASTM 05156m     >5     \$5     \$5     3     2       Titanium     ppm     ASTM 05156m     >5     \$     \$     3     3     3       Silver     ppm     ASTM 05156m     >7     4     1     3       Lead     ppm     ASTM 05156m     >7     14     1     3       Copper     ppm     ASTM 05156m     >10     <1	ne oil is no longer serviceable as a result of the	Iron	ppm	ASTM D5185m	>800	<b>2033</b>	<b>9</b> 08	<b>A</b> 849
Nickel     ppm     ASTM D518m     >15     A     5     3     2       Titanium     ppm     ASTM D518m     >15     7     4     1       Silver     ppm     ASTM D518m     >2     0     0     0       Aluminum     ppm     ASTM D518m     >2     0     0     0       Lead     ppm     ASTM D518m     >75     129     83     13       Lead     ppm     ASTM D518m     >75     17     9     8       Vanadium     ppm     ASTM D518m     >75     17     9     8       Vanadium     ppm     ASTM D518m     >75     17     9     8       Vanadium     ppm     ASTM D518m     >75     17     9     8       Data     ctar     <1	normal and/or severe wear.	Chromium	ppm	ASTM D5185m	>10	<b>A</b> 36	<u> </u>	<b>1</b> 7
Titanium       ppm       ASTM D518m       >12       7       4       1         Silver       ppm       ASTM D518m       >2       0       0       0         Aluminum       ppm       ASTM D518m       >75       129       83       13         Lead       ppm       ASTM D518m       >75       17       9       8       1       <1		Nickel	ppm	ASTM D5185m	>5	<b>4</b> 5	3	2
Silver       ppm       ASTM 05156n       >-20       0       0       0         Aluminum       ppm       ASTM 05156n       >-10       <1		Titanium	ppm	ASTM D5185m	>15	7	4	1
Aluminum       ppm       ASTM D5185m       >75       129       83       13         Lead       ppm       ASTM D5185m       >10       <1		Silver	ppm	ASTM D5185m	>2	0	0	0
LeadppmASTM DS185m>10<1<1<1CopperppmASTM DS185m>7517798TinppmASTM DS185m>76<10		Aluminum	ppm	ASTM D5185m	>75	<mark> </mark> 129	83	13
CopperppmASTM D516m>751798TinppmASTM D516m>8<1		Lead	ppm	ASTM D5185m	>10	<1	<1	<1
TinppmASTM D5185m>8<1<10VanadiumppmASTM D5185m<1		Copper	ppm	ASTM D5185m	>75	17	9	8
Vanadium CadmiumppmASTM D5185m<		Tin	ppm	ASTM D5185m	>8	<1	<1	0
CadmiumprmASTM D5185m<		Vanadium	mag	ASTM D5185m		<1	<1	0
ADDITIVESmethodlimit/basecurrenthistory1history1BoronppmASTM D5185m40091114BariumppmASTM D5185m200233232MolyOdenumppmASTM D5185m1281315ManganeseppmASTM D5185m12241910CalciumppmASTM D5185m150208731873349PhosphorusppmASTM D5185m150605603570ZincppmASTM D5185m125801704750SulfurppmASTM D5185m2492222216CONTAMINANTSmethodimit/basecurrenthistory1historSiliconppmASTM D5185m>40064138089SodiumppmASTM D5185m>2047277VISUALmethodimit/basecurrenthistory1historVisualNONENONENONENONENONENONEVisualNONENONENONENONENONENONEVisualNONENONENONENONENONENONESilitoscalar'VisualNONENONENONENONESilitoscalar'VisualNONENONENONENONEVisualNONENONENONENONENONENONESodiumppscalar'Visual<		Cadmium	ppm	ASTM D5185m		<1	0	0
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BariumppmASTM D5185m20023323232MolybdenumppmASTM D5185m1281315ManganeseppmASTM D5185m12241910CalciumppmASTM D5185m150208731873349PhosphorusppmASTM D5185m150605603570ZincppmASTM D5185m125801704750SulfurppmASTM D5185m22500252922162823CONTAMINANTSmethodimit/basecurrenthistory1history1SiliconppmASTM D5185m204730089SodiumppmASTM D5185m2047277VISUALmethodimit/basecurrenthistory1history1VisualNONENONENONENONENONENONEYelow MetalscalarYisualNONENONENONENONESiltscalarYisualNONENONENONENONENONEYelow MetalscalarYisualNONENONENONENONENONESiltscalarYisualNONENONENONENONENONEQuericascalarYisualNONENONENONENONEOtopscalarYisualNONENONENONENONEYelowscalarYisualNORENONENONE <td< td=""><td></td><td>Boron</td><td>ppm</td><td>ASTM D5185m</td><td>400</td><td>9</td><td>11</td><td>14</td></td<>		Boron	ppm	ASTM D5185m	400	9	11	14
MolybdenumppmASTM D5185m1281315ManganeseppmASTM D5185mIC222129MagnesiumppmASTM D5185m150208731873349CalciumppmASTM D5185m150605603570ZincoppmASTM D5185m125801704750ZincoppmASTM D5185m125801704750SulfurppmASTM D5185m22500252922162823CONTAMINANTSmethodImit/basscurrenthistory1history1history1SoliuonppmASTM D5185m>40064138089SodiumppmASTM D5185m>2047277VISUALmethodImit/basscurrenthistory1history1history1Visualscalar'VisualNONENONENONENONEVisualscalar'VisualNONENONENONENONESiltscalar'VisualNONENONENONENONESiltscalar'VisualNONENONENONENONEDebrisscalar'VisualNORENONENONENONEAppearancescalar'VisualNORMLNORMLNORMLNORMLAppearancescalar'VisualNORMLNORMLNORMLNORML		Barium	ppm	ASTM D5185m	200	23	32	32
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CalciumppmASTM D5185m150208731873349PhosphorusppmASTM D5185m1650605603570ZincppmASTM D5185m125801704750SulfurppmASTM D5185m22500252922162823CONTAMINANTSmethodlimit/basecurrenthistory1history1SiliconppmASTM D5185m>40064138089SodiumppmASTM D5185m>4006413203187PotassiumppmASTM D5185m>2047277VISUALmethodlimit/basecurrenthistory1history1White Metalscalar*VisualNONEMODERNONENONEYellow Metalscalar*VisualNONENONENONENONESititscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORML		Magnesium	ppm	ASTM D5185m	12	24	19	10
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SodiumppmASTM D5185m16123PotassiumppmASTM D5185m>2047277VISUALmethodlimit/basecurrenthistory1historWhite Metalscalar*VisualNONEMODERNONENONEYellow Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG0.2%NEG		Silicon	ppm	ASTM D5185m	>400	<b>6</b> 41	<b>380</b>	89
PotassiumppmASTM D5185m>2047277VISUALmethodlimit/basecurrenthistory1history1history1White Metalscalar*VisualNONEMODERNONENONEYellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONEMODERNONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG0.2%NEG		Sodium	ppm	ASTM D5185m		16	12	3
VISUALmethodlimit/basecurrenthistory1history1White Metalscalar*VisualNONEMODERNONENONEYellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG0.2%NEG		Potassium	ppm	ASTM D5185m	>20	47	27	7
White Metalscalar*VisualNONEMODERNONENONEYellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONEMODERNONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG0.2%NEG		VISUAL		method	limit/base	current	history1	history2
Yellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONEMODERNONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG0.2%NEG		White Metal	scalar	*Visual	NONE	MODER	NONE	NONE
Precipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONENONEDebrisscalar*VisualNONEMODERNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG0.2%NEG		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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Debrisscalar*VisualNONEMODERNONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG0.2%NEG		Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG0.2%NEG		Debris	scalar	*Visual	NONE		NONE	NONE
Appearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG0.2%NEG		Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Odorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG0.2%NEG		Appearance	scalar	*Visual	NORMI	NORML	NORMI	NORMI
Emulsified Water scalar *Visual >0.2 NEG 0.2% NEG		Odor	scalar	*Visual	NORMI	NORMI	NORMI	NORMI
		Emulsified Water	scalar	*Visual	>0.2	NEG	0.2%	NEG
Free Water scalar *//ioual NEC NEC		Erroo Water	coolor	*\/icual	20.L	NEG	NEC	NEG

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WEAR

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# **OIL ANALYSIS REPORT**



Report Id: SHEWIC [WUSCAR] 06205181 (Generated: 06/14/2024 11:45:36) Rev: 1

Submitted By: JAMES MOORE

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