

# **PROBLEM SUMMARY**

### Area **106 MIII** Machine Id SPINDLE BALANCE HYD (PLS021) (S/N 1000000721) Component Hydraulia System

Hydraulic System

## AW HYDRAULIC OIL ISO 46 (--- GAL)

## COMPONENT CONDITION SUMMARY



### RECOMMENDATION

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Check seals and/or filters for points of contaminant entry. 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. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Customer Id: ALGSSM Sample No.: WC0689909 Lab Number: 02645473 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>



PROBLEMATIC TEST RESULTS									
Sample Status			SEVERE	SEVERE	SEVERE				
Particles >4µm	ASTM D7647	>5000	<b>A</b> 72406	▲ 74479	▲ 130101				
Particles >6µm	ASTM D7647	>1300	<b>A</b> 9823	<b>A</b> 8710	<b>5</b> 4884				
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>4</b> 23/20/15	▲ 23/20/13	<b>4</b> /23/18				

R	E(	C	0	M	M	F١	N٢	)F	D	Α	C.	ΤI	0	N:	S
	_	<u> </u>	<u> </u>			_		_	-		<b>.</b>		~		~

Action	Status	Date	Done By	Description
Change Filler			?	
Resample			?	Resample in 30-45 days to monitor this situation.
Alert			?	Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment.
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.
Check Breathers			?	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.
Check Seals			?	Check seals and/or filters for points of contaminant entry.

### HISTORICAL DIAGNOSIS

### 01 Jun 2023 Diag: Wes Davis

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Check seals and/or filters for points of contaminant entry. 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. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



view report

#### 02 Apr 2023 Diag: Kevin Marson



ISO

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We advise that you check all areas where contaminants can enter the system. 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. 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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.Light concentration of visible metal present. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

#### 26 Jan 2023 Diag: Wes Davis



Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Check seals and/or filters for points of contaminant entry. 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. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. Particles >6µm are severely high. Particles >4µm are severely high. Oil Cleanliness are severely high. Particles >14µm are notably high. The All level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

. .





## **OIL ANALYSIS REPORT**

## Area 106 Mill SPINDLE BALANCE HYD (PLS021) (S/N 1000000721)

**Hydraulic System** 

AW HYDRAULIC OIL ISO 46 (--- GAL)

### DIAGNOSIS

### Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Check seals and/or filters for points of contaminant entry. 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. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0689909	WC0496454	WC0714601
Sample Date		Client Info		01 Jul 2024	01 Jun 2023	02 Apr 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	SEVERE	SEVERE
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	6	7	13
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>20	0	0	<1
Copper	ppm	ASTM D5185(m)	>20	2	3	4
Tin	ppm	ASTM D5185(m)	>20	0	0	0
Antimony	ppm	ASTM D5185(m)		0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
			Para la Illa anna a		Interter work	histow O
ADDITIVES		method	limit/base	current	nistory i	nistory∠
Boron	ppm	ASTM D5185(m)	limit/base	current	nistory i 0	<1
ADDITIVES Boron Barium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	5 5	current <1 0	0 0	<1 0
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5 5	<1 0 0	0 0 0 0	<1 0 0
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5 5	<1 0 0 0	0 0 0 0 0	<1 0 0 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5 5 25	<1 0 0 0 1	0 0 0 0 0 2	<1 0 0 <1 2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5 5 25 200	<1 0 0 0 1 61	0 0 0 0 2 58	<pre>ristory2 &lt;1 0 0 &lt;1 2 61</pre>
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	11mil/base 5 5 5 25 200 300	<1 0 0 0 1 61 237	0 0 0 0 2 58 279	<pre>ristory2 &lt;1 0 0 &lt;1 2 61 266</pre>
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	11m1//base 5 5 5 25 200 300 370	<pre>current &lt;1 0 0 0 1 61 237 296</pre>	0 0 0 0 2 58 279 295	<pre>ristory2 &lt;1 0 0 &lt;1 2 61 266 288</pre>
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	11mit/base 5 5 5 25 200 300 370 2500	<1 0 0 0 1 61 237 296 778	Nistory I       0       0       0       0       2       58       279       295       765	<pre>ristory2 &lt;1 0 0 &lt;1 2 61 266 288 747</pre>
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm ppm ppm	Method           ASTM D5185(m)	11mi//base 5 5 5 25 200 300 370 2500	<1 0 0 0 1 61 237 296 778 <1	Nistory 1       0       0       0       0       2       58       279       295       765       <1	<pre>History2 &lt;1 0 0 &lt;1 2 61 266 288 747 &lt;1</pre>
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm ppm	Method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	IImit/base 5 5 25 200 300 370 2500 Iimit/base	<ul> <li>&lt;1</li> <li>0</li> <li>0</li> <li>1</li> <li>61</li> <li>237</li> <li>296</li> <li>778</li> <li>&lt;1</li> <li>current</li> </ul>	Nistory I       0       0       0       0       2       58       279       295       765       <1       history1	<pre>History2 &lt;1 0 0 &lt;1 2 61 266 288 747 &lt;1 history2</pre>
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185(m)	IImit/base 5 5 25 200 300 370 2500 Iimit/base >15	<pre>current </pre> <1 0 0 1 61 237 296 778 <1 current 0	Nistory1       0       0       0       0       2       58       279       295       765       <1	<pre>history2 &lt;1 0 0 &lt;1 2 61 266 288 747 &lt;1 history2 &lt;1</pre>
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	IImit/base 5 5 25 200 300 370 2500 Iimit/base >15	<pre>current </pre> <1 0 0 0 1 61 237 296 778 <1  <1 current 0	Nistory1         0         0         0         0         2         58         279         295         765         <1         history1         <1         <1	<pre>history2 &lt;1 0 0 &lt;1 2 61 266 288 747 &lt;1 history2 &lt;1 &lt;1 </pre>
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	Method           ASTM D5185(m)	IIMI//base 5 5 25 200 300 370 2500 Iimit/base >15 >20	current         <1         0         0         0         1         61         237         296         778         <1         current         0         <1         <1         <1         <1         <1         <1         <1	Nistory1         0         0         0         0         2         58         279         295         765         <1         <1         <1         2	<pre>history2 &lt;1 0 0 &lt;1 2 61 266 288 747 &lt;1 history2 &lt;1 &lt;1 &lt;1 &lt;1 </pre>
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185(m)	IImit/base 5 5 25 200 300 370 2500 Iimit/base >15 >20 Iimit/base	current         <1         0         0         0         1         61         237         296         778         <1         0         <1         0         <1         0         <1         current         0         <1         current	Nistory1         0         0         0         0         2         58         279         295         765         <1         history1         <1         2         1         2         history1	<1         0         <1         2         61         266         288         747         <1         history2         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4um	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185(m)	IImit/base 5 5 25 200 300 370 2500 2500 Iimit/base >20 Iimit/base	<1         0         0         0         0         1         61         237         296         778         <1         current         0         <1         current         0         <1         current         0         <1         Current	Nistory1         0         0         0         0         2         58         279         295         765         <1         <1         <1         <1         2         history1         2         74479	<1         0         <1         2         61         266         288         747         <1         history2         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         130101
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185(m)	IImit/base 5 5 25 200 300 370 2500 Iimit/base >15 >20 Iimit/base >5000 >1300	current         <1         0         0         0         1         61         237         296         778         <1         0         <1         0         <1         0         <1         0         <1         0         <1         2         0         <1         2         2         0         <1         2         2         2         3         2         2         3         3         4         3         2         3         2         3         3         3         4         3         3         3         3         3         3         3         4         3         4         3     <	Nistory1         0         0         0         2         58         279         295         765         <1         <1         <1         <1         <1         ×1	<1         0         <1         2         61         266         288         747         <1         <1         <1         <1         1         1         1         1         1         1         130101         54884
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185(m)           ASTM D7647           ASTM D7647           ASTM D7647	IImit/base 5 5 25 200 300 370 2500 Iimit/base >15 >20 Iimit/base >5000 >1300 >1300	current         <1         0         0         0         1         61         237         296         778         <1         0         <1         0         <1         0         <1         0         <1         0         <1         2         0         <1         2         2         0         <1         2         2         2         3         2         2         3     <	Nistory1         0         0         0         0         2         58         279         295         765         <1         <1         <1         <1         2         history1         <1         <1         2         history1         <1         2         history1         54	<1         0         <1         2         61         266         288         747         <1         history2         <1         <1         1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <130101         54884         1446
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185(m)           ASTM D7647           ASTM D7647           ASTM D7647           ASTM D7647	Imit/base 5 5 25 200 300 370 2500 Imit/base >15 >20 Imit/base >5000 >1300 >160 >40	<1         0         0         0         1         61         237         296         778         <1         current         0         <1         current         0         <1         current         0         <1         current         0         <1         0         <1         0         <1         186         36	Nistory1         0         0         0         0         2         58         279         295         765         <1         <1         <1         <1         <1         ×1         ×1         ×1         ×1         ×1         ×1         ×1         ×1         ×2         history1         ×3         ×479         ×374479         ×3710         54         9	<1         0         <1         2         61         266         288         747         <1         history2         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <14         <130101         54884         1446         277
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >4µm Particles >21µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185(m)           ASTM D7647           ASTM D7647           ASTM D7647	Imit/base         5         5         25         200         300         370         2500         Imit/base         >15         >20         limit/base         >5000         >1300         >160         >40         >10	<1         0         0         0         1         61         237         296         778         <1         current         0         <1         0         <1         current         0         <1         current         0         <1         current         0         <1         current         186         36         4	Nistory1         0         0         0         2         58         279         295         765         <1         <1         <1         <1         2         history1         <1         <1         <1         54         9         0	<1         0         <1         2         61         266         288         747         <1         history2         <1         history2         <1         10         54884         1446         277         19
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >4µm Particles >14µm Particles >38µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method         ASTM D5185(m)         ASTM D7647         ASTM D7647         ASTM D7647         ASTM D7647         ASTM D7647         ASTM D7647	IIMI//Dase         5         5         25         200         300         370         2500         IIMI//Dase         >15         >20         Iimit/base         >5000         >1300         >160         >40         >10         >3	<1         0         0         0         0         1         61         237         296         778         <1         current         0         <1         current         0         <1         current         0         <1         current         1         2         186         36         4         1	Nistory1         0         0         0         2         58         279         295         765         <1         <1         <1         <1         <1         <1         58         0         <1         <1         <1         2         history1         <1         2         0         0         0         0         0	<1         0         <1         2         61         266         288         747         <1         history2         <1         history2         <1         54884         1446         277         19         3
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >4µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm Oil Cleanlinger	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185(m)           ASTM D7647	IIMI//Dase         5         5         25         200         300         370         2500         IIMI//Dase         >15         >20         Iimit/base         >5000         >1300         >160         >40         >10         >3         >19/17/14	<1         0         0         0         0         1         61         237         296         778         <1         current         0         <1         6         9823         186         36         4         1	Nistory1         0         0         0         2         58         279         295         765         <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         0         <1         2         61         266         288         747         <1         history2         <1         + 130101         ▲ 54884         ▲ 1446         ▲ 277         19         3         24/22/19



# **OIL ANALYSIS REPORT**

491,520	Partio	cle Cou	nt				τ2	6	FL
122,880	Severe						-2	4	Acid
E 30,720	Abnormal	-					2	2 SO 440	VIS
1,920-		- /					-1	6:199	14/1 11
480 ·			1				-1	9 Clea	White
120·				1			+1	4 nines	Yello
4 30.					-		Ī,	2 16	Prec
2.						-		a .	Silt
0.		6u	140	21		38.0	716		Debr
	<i>и</i>	υμ	174	21)	u .	30µ	Tιμ		Sanc
800k -	Partic	cle Trei	nd						Appe
700k		4μm							Odor
E 600k		ατος 6μm 14μm							Emu
<u>왕</u> 500k ·	$\overline{\mathbf{A}}$	1:							Free
100k	V								1100
E 200k	NV.	A							FLU
2 100k	V	1			1	·	~		Visc
0k ·	Abriorm		V.						
	31/1	116/18	r25/19	c15/2(	r24/2	2/12	in1/2;		SA
	De	ηr	Ma	Dec	Ma	Nor	ŗ		
	Acid	Numbe	er						0.1.
1.00	Abnorm	al							C010
KOH		1							
0.60	Base	1							Dette
٩.40 -	/	V	1	Ne le las a			-		DOLLC
P 0.20	Abnorm	al	$\mathbf{V}$					× .	
			T (						
0.00	11-	18	60	/21-	22	22	23	24	Dr+C:
	Jec31	Jun7,	lec22/	Mar24	Aar24,	lov27/	Apr2/	Jull	FILFI
	_			~	2	2			



I LOID DEGNADA	TION	method	innit/base	current	nistory i	riistory2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.21	0.30	0.36
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	NONE	🔺 LIGHT
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*	>0.05	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERTI	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46	44.2	44.5	44.7
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						
PrtFilter				no image	no image	

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 ALGOMA STEEL INC. - STORES DEPT. Laboratory CALA Sample No. : WC0689909 Received : 04 Jul 2024 301 WALLACE TERRACE Lab Number : 02645473 Tested : 08 Jul 2024 SAULT STE MARIE, ON ISO 17025:2017 Accredited Laboratory : 08 Jul 2024 - Kevin Marson CA P6C 1K8 Unique Number : 5803012 Diagnosed Test Package : IND 2 (Additional Tests: Bottom, FilterPatch) Contact: Algoma Reliability To discuss this sample report, contact Customer Service at 1-800-268-2131. algomareliability@algoma.com Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (705)206-1059 ΠÌ Validity of results and interpretation are based on the sample and information as supplied. F: (705)945-3585

Report Id: ALGSSM [WCAMIS] 02645473 (Generated: 07/08/2024 10:15:44) Rev: 1

Contact/Location: Maintenance Technology - Algoma Reliability - ALGSSM