

### **OIL ANALYSIS REPORT**

Machine Id

# FLUID POWER 2177033 (S/N SRNS 105)

Component Hydraulic System

SHELL ECOSAFE S3 DU 46 (3 GAL)

#### DIAGNOSIS

#### Recommendation

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

#### Wear

All component wear rates are normal.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. 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.

#### Particle Filter (Magn: 200 x)



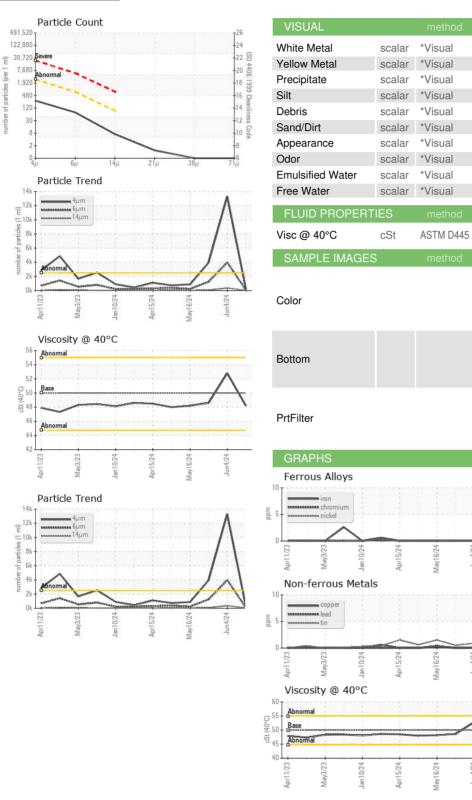
Sample Rating Trend NORMAL

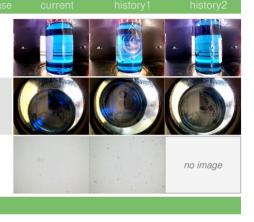
Sample Number     Client Info     PH0001466     PH0001467     PH0001467       Sample Date     Client Info     06 Jun 2024     04 Jun 2024     19 May 2024       Machine Age     hrs     Client Info     0     0     0       Oil Age     hrs     Client Info     N/A     N/A     N/A       Sample Status     I     Into Normal     ABNORMAL     ATTENTION       CONTAMINATION     method     Init/bas     current     history!     history!       Water     WC Method     >0.05     NEG     NEG     NEG       WetAR METALS     method     101/bbs     current     history!     history!       Iron     ppm     ASTM D5185m     >20     0     0     0       Nickel     ppm     ASTM D5185m     >20     0     0     0       Iranium     ppm     ASTM D5185m     >20     0     0     0       Copper     ppm     ASTM D5185m     >20     0     0     0       Copper     ppm	SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
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     N/A       Sample Status     Image     Client Info     NORMAL     ABNORMAL     ATTENTION       CONTAMINATION     method     Imit/base     current     history1     history2       Water     WC Method     >0.05     NEG     NEG     NEG       WEAR METALS     method     Imit/base     current     history1     history2       Iron     ppm     ASTM05858m     >20     0     0     0       Nickel     ppm     ASTM05858m     >20     0     0     0       Itanium     ppm     ASTM05858m     >20     0     0     0       Copper     ppm     ASTM05858m     >20     0     0     0       Copper     ppm     ASTM05858m     20     0     0     0       Codpate	Sample Number		Client Info		PH0001466	PH0001465	PH0001467
Oil Age     hrs     Client Into     0     0     0       Oil Changed     Client Info     N/A     N/A     N/A     N/A       Sample Status     Client Info     N/A     NA     ABNORMAL     ATTENTION       CONTAMINATION     method     Innit/base     current     history1     history1       Water     WC Method     >0.05     NEG     NEG     NEG       Water     WC Method     >0.0     0     0     0       Chromium     ppm     ASTM 05165m     >20     0     0     0       Chromium     ppm     ASTM 05165m     >20     0     0     0       Silver     ppm     ASTM 05165m     >20     0     0     0       Aluminum     ppm     ASTM 05165m     >20     0     0     0       Cadmium     ppm     ASTM 05165m     >20     0     -1     -1       Vaaduum     ppm     ASTM 05165m     >20     0     -1     -1       Vanadium	Sample Date		Client Info		06 Jun 2024	04 Jun 2024	19 May 2024
Oil Changed Sample Status     Client Info     N/A NORMAL     N/A ABNORMAL     N/A ATTENTION       CONTAMINATION     method     limit/base     current     history1     history2       Water     WC Method     >0.05     NEG     NEG     NEG     NEG       WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >20     0     0     0       Nickel     ppm     ASTM D5185m     >20     0     0     0       Nickel     ppm     ASTM D5185m     >20     0     0     0       Aluminum     ppm     ASTM D5185m     >20     0     0     0       Lead     ppm     ASTM D5185m     >20     0     0     0       Vanadium     ppm     ASTM D5185m     20     0     0     0       Addition     ppm     ASTM D5185m     0     0     0     0       Vanadium     ppm     ASTM D5185m     0     0	Machine Age	hrs	Client Info		0	0	0
Sample Status     NORMAL     ABNORMAL     ATTENTION       CONTAMINATION     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 D5185m     >20     0     0     0       Nickel     ppm     ASTM D5185m     >20     0     0     0       Nickel     ppm     ASTM D5185m     >20     0     0     0       Aluminum     ppm     ASTM D5185m     >20     0     0     0       Copper     ppm     ASTM D5185m     >20     0     0     0       Cadmium     ppm     ASTM D5185m     >20     0     0     0       Admadum     ppm     ASTM D5185m     0     0     0     0       Vanadium     ppm     ASTM D5185m     0     0     0     0       Morehue	Oil Age	hrs	Client Info		0	0	0
CONTAMINATION     method     imit/base     current     history1     history2       Water     WC Method     >0.05     NEG     NEG     NEG       WEAR METALS     method     imit/base     current     history1     history2       Iron     ppm     ASTM 05185m     >20     0     0     0       Nickel     ppm     ASTM 05185m     >20     0     0     0       Silver     ppm     ASTM 05185m     >20     0     0     0       Aluminum     ppm     ASTM 05185m     >20     0     0     0       Aluminum     ppm     ASTM 05185m     >20     0     0     0       Copper     ppm     ASTM 05185m     >20     0     -1     -1       Vanadium     ppm     ASTM 05185m     >20     0     0     0       Cadmium     ppm     ASTM 05185m     0     0     0     0       Molybdenum     ppm     ASTM 05185m     0     -1     1     1 <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>N/A</th> <th>N/A</th> <th>N/A</th>	Oil Changed		Client Info		N/A	N/A	N/A
Water     WC Method     >0.05     NEG     NEG     NEG       WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5165m<>20     0     0     0       Ohromium     ppm     ASTM D5165m<>20     0     0     0       Nickel     ppm     ASTM D5165m<>20     0     0     0       Silver     ppm     ASTM D5165m<>20     0     0     0       Auminum     ppm     ASTM D5165m<>20     0     0     0       Lead     ppm     ASTM D5165m<>20     0     0     0       Vanadium     ppm     ASTM D5165m<>20     0     0     0       Vanadium     ppm     ASTM D5165m<>20     0     0     0       Vanadium     ppm     ASTM D5165m<     0     0     0     0       Vanadium     ppm     ASTM D5165m     0     <1     7     1       Vanadium     ppm     ASTM D5165m     0     <1	Sample Status				NORMAL	ABNORMAL	ATTENTION
WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5165m     >20     0     0     0       Ohromium     ppm     ASTM D5165m     >20     0     0     0       Nickel     ppm     ASTM D5165m     >20     0     0     0       Silver     ppm     ASTM D5165m     >20     0     0     0       Auminum     ppm     ASTM D5165m     >20     0     0     0       Lead     ppm     ASTM D5165m     >20     0     0     0       Vanadium     ppm     ASTM D5165m     >20     0     0     0       Vanadium     ppm     ASTM D5165m     >20     0     0     0       Cadmium     ppm     ASTM D5165m     >20     0     0     0       Mangainese     ppm     ASTM D5165m     0     <1     7       Barium     ppm     ASTM D5165m     0     <1     <1	CONTAMINATIO	N	method	limit/base	current	history1	history2
Iron     ppm     ASTM D5185m     >20     0     0     0       Ohromium     ppm     ASTM D5185m     >20     0     0     0       Nickel     ppm     ASTM D5185m     >20     0     0     0       Silver     ppm     ASTM D5185m     >20     0     0     0       Auminum     ppm     ASTM D5185m     >20     0     0     0       Lead     ppm     ASTM D5185m     >20     0     0     0       Cadmium     ppm     ASTM D5185m     >20     0     -11     <1       Vanadium     ppm     ASTM D5185m     >20     0     -11     <1       Vanadium     ppm     ASTM D5185m     0     -11     <1       Vanadium     ppm     ASTM D5185m     0     -11     7       Barium     ppm     ASTM D5185m     0     -11     0       Magnese     ppm     ASTM D5185m     0     -11     0       Magnesium     ppm </th <th>Water</th> <th></th> <th>WC Method</th> <th>&gt;0.05</th> <th>NEG</th> <th>NEG</th> <th>NEG</th>	Water		WC Method	>0.05	NEG	NEG	NEG
Chromium     ppm     ASTM D5185m     >20     0     0     0       Nickel     ppm     ASTM D5185m     >20     0     0     0       Silver     ppm     ASTM D5185m     >20     0     0     0       Aluminum     ppm     ASTM D5185m     >20     0     0     0       Lead     ppm     ASTM D5185m     >20     0     0     0       Lead     ppm     ASTM D5185m     >20     0     0     0       Copper     ppm     ASTM D5185m     >20     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       ADDTIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     0     0     0       Magnanese     ppm     ASTM D5185m     0     3     1     1       Phosphorus     ppm     ASTM D5185m     0     3     1     1	WEAR METALS		method	limit/base	current	history1	history2
Nickel     ppm     ASTM D5185m     >20     0     0     0       Titanium     ppm     ASTM D5185m     0     0     0     0       Silver     ppm     ASTM D5185m     >20     0     0     0       Aluminum     ppm     ASTM D5185m     >20     0     0     0       Lead     ppm     ASTM D5185m     >20     0     0     0       Copper     ppm     ASTM D5185m     >20     0     0     0       Yanadium     ppm     ASTM D5185m     >20     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     <1     0       Magnageium     ppm     ASTM D5185m     0     <1     0       Magnesium     ppm     ASTM D5185m     0     <1     0       Sulfur	Iron	ppm	ASTM D5185m	>20	0	0	0
Titanium     ppm     ASTM D5185m     0     0     0     0       Silver     ppm     ASTM D5185m     S20     0     0     0       Aluminum     ppm     ASTM D5185m     >20     0     0     0       Lead     ppm     ASTM D5185m     >20     0     0     0       Copper     ppm     ASTM D5185m     >20     0     0     0       Tin     ppm     ASTM D5185m     20     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     <1     7     1       Boron     ppm     ASTM D5185m     0     <1     7     1       Barium     ppm     ASTM D5185m     0     <1     1     1       Magnesium     ppm     ASTM D5185m     0     <1     <1     1       Calcium     ppm     ASTM D5185m     0     1     0     1	Chromium	ppm	ASTM D5185m	>20	0	0	0
Silver     ppm     ASTM D5185m     0     0     0       Aluminum     ppm     ASTM D5185m     >20     0     0     0       Lead     ppm     ASTM D5185m     >20     0     0     0       Copper     ppm     ASTM D5185m     >20     0     0     0       Tin     ppm     ASTM D5185m     >20     0     <1     <1       Vanadium     ppm     ASTM D5185m     >20     0     <1     <1       Vanadium     ppm     ASTM D5185m     0     0     0     0       ADDTIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     <1     7       Barium     ppm     ASTM D5185m     0     <1     0       Magnesium     ppm     ASTM D5185m     0     3     <1       Phosphorus     ppm     ASTM D5185m     0     1     0       Sulfur     ppm     ASTM D5185m <th>Nickel</th> <td>ppm</td> <td>ASTM D5185m</td> <td>&gt;20</td> <th>0</th> <td>0</td> <td>0</td>	Nickel	ppm	ASTM D5185m	>20	0	0	0
Aluminum     ppm     ASTM D5185m     >20     0     0     0       Lead     ppm     ASTM D5185m     >20     0     0     0       Copper     ppm     ASTM D5185m     >20     0     0     0       Tin     ppm     ASTM D5185m     >20     0     <1     <1       Vanadium     ppm     ASTM D5185m     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     <1     7        Boron     ppm     ASTM D5185m     0     <1     7        Barium     ppm     ASTM D5185m     0     <1     7        Barium     ppm     ASTM D5185m     0     <1     0     0       Molybdenum     ppm     ASTM D5185m     0     <1     1     1       Calcium     ppm     ASTM D5185m     0     3     <1     1       Calcium     ppm     ASTM D5185m     0     1     0     3	Titanium	ppm	ASTM D5185m		0	0	0
Aluminum     ppm     ASTM D5185m     >20     0     0     0       Lead     ppm     ASTM D5185m     >20     0     0     0       Copper     ppm     ASTM D5185m     >20     0     0     0       Tin     ppm     ASTM D5185m     >20     0     <1     <1       Vanadium     ppm     ASTM D5185m     >20     0     <1     <1       Vanadium     ppm     ASTM D5185m     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     <1     7        Boron     ppm     ASTM D5185m     0     <1     7        Barium     ppm     ASTM D5185m     0     <1     0        Molybdenum     ppm     ASTM D5185m     0     <1     1     1       Calcium     ppm     ASTM D5185m     0     3     <1     1       Calcium     ppm     ASTM D5185m     0     1     0     0	Silver		ASTM D5185m		0	0	0
Lead     ppm     ASTM D5185m     >20     0     0     0       Copper     ppm     ASTM D5185m     >20     0     <1     <1       Vanadium     ppm     ASTM D5185m     >20     0     <1     <1       Vanadium     ppm     ASTM D5185m      0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       ADDITIVES     method     imit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     <1     7       Barium     ppm     ASTM D5185m     0     <1     <1       Magnese     ppm     ASTM D5185m     0     <1     <1       Magnesium     ppm     ASTM D5185m     0     3     <1       Phosphorus     ppm     ASTM D5185m     0     3     <1       Sulfur     ppm     ASTM D5185m     20     1     <1     <1       Sodium     ppm     ASTM D5185	Aluminum		ASTM D5185m	>20	0	0	0
Copper     ppm     ASTM D5185m     >20     0     0     0       Tin     ppm     ASTM D5185m     >20     0     <1     <1       Vanadium     ppm     ASTM D5185m     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     0     0     0       Molybdenum     ppm     ASTM D5185m     0     0     0     0       Magnesium     ppm     ASTM D5185m     0     -1     0     0       Magnesium     ppm     ASTM D5185m     0     -1     0     0     1     0     1     1     1     2     1     2     1     1     1     0     1     0     1     0     1     1     1     1     1     1     1     1     1     1     1 </th <th></th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th></th>					-		
Tin     ppm     ASTM D5185m     >20     0     <1				>20		0	0
Vanadium     ppm     ASTM D5185m     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     <1					-		÷
Cadmium     ppm     ASTM D5185m     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     <1				200			
ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     <1     7       Barium     ppm     ASTM D5185m     0     0     0       Molybdenum     ppm     ASTM D5185m     0     0     0       Maganese     ppm     ASTM D5185m     0     <1     0       Magnesium     ppm     ASTM D5185m     0     <1     0       Calcium     ppm     ASTM D5185m     0     3     <1       Phosphorus     ppm     ASTM D5185m     683     695     684       Zinc     ppm     ASTM D5185m     3929     3840     4247       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     21     <1     <1     <1       Sodium     ppm     ASTM D5185m     20     0     2     0       Particles >4µm     ASTM D7647     >2500     241					-		
Boron     ppm     ASTM D5185m     0     <1		ppm		limit/baco	-	-	-
Barium     ppm     ASTM D5185m     0     0     0       Molybdenum     ppm     ASTM D5185m     0     -1     0       Maganese     ppm     ASTM D5185m     0     -1     0       Magnesium     ppm     ASTM D5185m     0     -1     -1       Calcium     ppm     ASTM D5185m     0     3     -1       Phosphorus     ppm     ASTM D5185m     683     695     684       Zinc     ppm     ASTM D5185m     683     695     684       Sulfur     ppm     ASTM D5185m     0     1     0       Sulfur     ppm     ASTM D5185m     3929     3840     4247       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     <1     <1     <1       Sodium     ppm     ASTM D5185m     >20     0     2     0       FLUID CLEANLINESS     method     limit/base     current     <				IIIIII/Dase			
Molybdenum     ppm     ASTM D5185m     0     0     0       Manganese     ppm     ASTM D5185m     0     <1		ppm					
Manganese     ppm     ASTM D5185m     0     <1		ppm	ASTM D5185m		-	0	
Magnesium   ppm   ASTM D5185m   0   <1   <1     Calcium   ppm   ASTM D5185m   0   3   <1     Phosphorus   ppm   ASTM D5185m   683   695   684     Zinc   ppm   ASTM D5185m   0   1   0     Sulfur   ppm   ASTM D5185m   0   1   0     Sulfur   ppm   ASTM D5185m   0   1   0     Sulfur   ppm   ASTM D5185m   3929   3840   4247     CONTAMINANTS   method   limit/base   current   history1   history2     Silicon   ppm   ASTM D5185m   >15   <1   <1   <1     Sodium   ppm   ASTM D5185m   >20   0   0   0     Potassium   ppm   ASTM D5185m   >20   0   2   0     FLUID CLEANLINESS   method   limit/base   current   history1   history2     Particles >4µm   ASTM D7647   >2500   241   13303   3970     Particles >6µm   ASTM D7647   <	-	ppm	ASTM D5185m				
Calcium     ppm     ASTM D5185m     0     3     <1	•	ppm	ASTM D5185m		-	<1	0
Phosphorus     ppm     ASTM D5185m     683     695     684       Zinc     ppm     ASTM D5185m     0     1     0       Sulfur     ppm     ASTM D5185m     3929     3840     4247       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     <1	Magnesium	ppm	ASTM D5185m		0	<1	<1
Zinc     ppm     ASTM D5185m     0     1     0       Sulfur     ppm     ASTM D5185m     3929     3840     4247       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     <1     <1     <1       Sodium     ppm     ASTM D5185m     >15     <1     <1     <1       Sodium     ppm     ASTM D5185m     >20     0     0     0       Potassium     ppm     ASTM D5185m     >20     0     2     0       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     >2500     241     13303     3970       Particles >6µm     ASTM D7647     >80     6     33970     1252       Particles >14µm     ASTM D7647     >80     6     3399     71       Particles >21µm     ASTM D7647     >20     1     133     0       Particl	Calcium	ppm	ASTM D5185m		0	3	<1
Sulfur     ppm     ASTM D5185m     3929     3840     4247       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     <1     <1     <1       Sodium     ppm     ASTM D5185m     >15     <1     <1     <1       Sodium     ppm     ASTM D5185m     >20     0     0     0       Potassium     ppm     ASTM D5185m     >20     0     2     0       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     >2500     241     13303     3970       Particles >6µm     ASTM D7647     >66     3970     1252       Particles >14µm     ASTM D7647     >80     6     3399     71       Particles >21µm     ASTM D7647     >20     1     133     20       Particles >38µm     ASTM D7647     >4     0     13     0       Particles >71µm<	Phosphorus	ppm	ASTM D5185m		683	695	684
CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     <1     <1     <1       Sodium     ppm     ASTM D5185m     >15     <1     <1     <1       Sodium     ppm     ASTM D5185m     >0     0     0     0       Potassium     ppm     ASTM D5185m     >20     0     2     0       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     >2500     241     A 13303     3970       Particles >6µm     ASTM D7647     >640     66     A 3970     1252       Particles >14µm     ASTM D7647     >80     6     A 339     71       Particles >21µm     ASTM D7647     >20     1     A 133     20       Particles >38µm     ASTM D7647     >3     0     1     0       Particles >71µm     ASTM D7647     >3     0     1     0	Zinc	ppm	ASTM D5185m		0	1	0
Silicon     ppm     ASTM D5185m     >15     <1	Sulfur	ppm	ASTM D5185m		3929	3840	4247
Sodium     ppm     ASTM D5185m     0     0     0       Potassium     ppm     ASTM D5185m     >20     0     2     0       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     >2500     241     A 13303     3970       Particles >6µm     ASTM D7647     >640     66     A 3970     1252       Particles >6µm     ASTM D7647     >80     6     A 339     71       Particles >14µm     ASTM D7647     >20     1     A 133     20       Particles >21µm     ASTM D7647     >20     1     A 133     0       Particles >38µm     ASTM D7647     >4     0     13     0       Particles >71µm     ASTM D7647     >3     0     1     0       Oil Cleanliness     ISO 4406 (c)     >18/16/13     15/13/10     21/19/16     19/17/13	CONTAMINANTS	\$	method	limit/base	current	history1	history2
Potassium     ppm     ASTM D5185m     >20     0     2     0       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     >2500     241     A 13303     3970       Particles >6µm     ASTM D7647     >640     66     A 3970     1252       Particles >14µm     ASTM D7647     >80     6     A 339     71       Particles >21µm     ASTM D7647     >20     1     A 133     20       Particles >38µm     ASTM D7647     >4     0     A 133     0       Particles >71µm     ASTM D7647     >3     0     1     0       Oil Cleanliness     ISO 4406 (c)     >18/16/13     15/13/10     21/19/16     19/17/13       FLUID DEGRADATION     method     limit/base     current     history1     history2	Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     >2500     241     A 13303     3970       Particles >6µm     ASTM D7647     >640     66     3970     1252       Particles >14µm     ASTM D7647     >80     6     3390     71       Particles >14µm     ASTM D7647     >20     1     A 133     20       Particles >21µm     ASTM D7647     >20     1     A 133     20       Particles >38µm     ASTM D7647     >4     0     A 13     0       Particles >71µm     ASTM D7647     >3     0     1     0       Oil Cleanliness     ISO 4406 (c)     >18/16/13     15/13/10     21/19/16     19/17/13       FLUID DEGRADATION     method     limit/base     current     history1     history2	Sodium	ppm	ASTM D5185m		0	0	0
Particles >4µm   ASTM D7647   >2500   241   ▲ 13303   3970     Particles >6µm   ASTM D7647   >640   66   ▲ 3970   1252     Particles >14µm   ASTM D7647   >80   6   ▲ 339   71     Particles >21µm   ASTM D7647   >20   1   ▲ 133   20     Particles >21µm   ASTM D7647   >20   1   ▲ 133   0     Particles >38µm   ASTM D7647   >4   0   ▲ 13   0     Particles >71µm   ASTM D7647   >3   0   1   0     Oil Cleanliness   ISO 4406 (c)   >18/16/13   15/13/10   ▲ 21/19/16   19/17/13	Potassium	ppm	ASTM D5185m	>20	0	2	0
Particles >6µm     ASTM D7647     >640     66     A 3970     1252       Particles >14µm     ASTM D7647     >80     6     339     71       Particles >21µm     ASTM D7647     >20     1     A 133     20       Particles >38µm     ASTM D7647     >20     1     A 133     0       Particles >38µm     ASTM D7647     >4     0     A 13     0       Particles >71µm     ASTM D7647     >3     0     1     0       Oil Cleanliness     ISO 4406 (c)     >18/16/13     15/13/10     21/19/16     19/17/13       FLUID DEGRADATION     method     limit/base     current     history1     history2	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >6µm   ASTM D7647   >640   66   A 3970   1252     Particles >14µm   ASTM D7647   >80   6   339   71     Particles >21µm   ASTM D7647   >20   1   A 133   20     Particles >21µm   ASTM D7647   >20   1   A 133   0     Particles >38µm   ASTM D7647   >4   0   A 13   0     Particles >71µm   ASTM D7647   >3   0   1   0     Oil Cleanliness   ISO 4406 (c)   >18/16/13   15/13/10   21/19/16   19/17/13	Particles >4µm		ASTM D7647	>2500	241	<b>1</b> 3303	93970
Particles >21μm     ASTM D7647     >20     1     133     20       Particles >38μm     ASTM D7647     >4     0     13     0       Particles >38μm     ASTM D7647     >4     0     13     0       Particles >71μm     ASTM D7647     >3     0     1     0       Oil Cleanliness     ISO 4406 (c)     >18/16/13     15/13/10     21/19/16     19/17/13       FLUID DEGRADATION     method     limit/base     current     history1     history2			ASTM D7647	>640	66	<b>A</b> 3970	1252
Particles >38μm     ASTM D7647     >4     0     ▲ 13     0       Particles >71μm     ASTM D7647     >3     0     1     0       Oil Cleanliness     ISO 4406 (c)     >18/16/13     15/13/10     ▲ 21/19/16     19/17/13       FLUID DEGRADATION     method     limit/base     current     history1     history2	Particles >14µm		ASTM D7647	>80	6	<b>A</b> 339	71
Particles >38μm     ASTM D7647     >4     0     ▲ 13     0       Particles >71μm     ASTM D7647     >3     0     1     0       Oil Cleanliness     ISO 4406 (c)     >18/16/13     15/13/10     ▲ 21/19/16     19/17/13       FLUID DEGRADATION     method     limit/base     current     history1     history2	Particles >21µm		ASTM D7647	>20	1	<b>1</b> 33	20
Particles >71μm     ASTM D7647     >3     0     1     0       Oil Cleanliness     ISO 4406 (c)     >18/16/13     15/13/10     4 21/19/16     19/17/13       FLUID DEGRADATION     method     limit/base     current     history1     history2				>4	0		0
Oil Cleanliness     ISO 4406 (c)     >18/16/13     15/13/10     21/19/16     19/17/13       FLUID DEGRADATION     method     limit/base     current     history1     history2				>3	0		0
						▲ 21/19/16	9/17/13
Acid Number (AN) mg KOH/g ASTM D8045 0.42 0.43 0.40	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.42	0.43	0.40

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## **OIL ANALYSIS REPORT**





NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

52.8

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

48.6

NONE

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NONE

NORML

NORML

NEG

NEG

48.2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

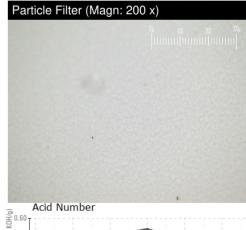
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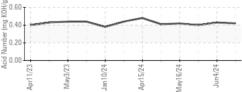
>0.05

50.0

104/74

Jun4/24 -





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 HYDRADYNE LLC Sample No. : PH0001466 Received : 11 Jun 2024 15050 FAA BLVD Lab Number : 06206472 Tested : 17 Jun 2024 FORT WORTH, TX Unique Number : 11073933 Diagnosed : 17 Jun 2024 - Doug Bogart US 76155 Test Package : PLANT (Additional Tests: PrtFilter) Contact: JACK DAVIS Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. jdavis@hydradynellc.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Report Id: HYDFORTX [WUSCAR] 06206472 (Generated: 06/17/2024 11:30:05) Rev: 1

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