

## **OIL ANALYSIS REPORT**

Sample Rating Trend



## Machine Id

LETORNEAU 115

Component Front Right Final Drive Fluid

### SCHAEFFER 209 MOLY UNIVERSAL GEARLUBE SAE 140 (--- GAL)

#### DIAGNOSIS

#### Recommendation

Check seals and/or filters for points of contaminant entry. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is a high amount of particulates present in the oil. Moderate concentration of visible dirt/debris present in the oil.

#### Fluid Condition

The oil viscosity is lower than normal. Confirm oil type.

Sample Date         Image of the set of the	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine Age     hrs     Client Info     2893         Oil Age     hrs     Client Info     0         Sample Status      Client Info     Not Changd         Sample Status      Imitibase     current     History1        CONTAMINATION     method     imitibase     current     History1        Water     WC Method     >.0.2     NEG         WEAR METALS     method     imitibase     current     History1        VEAR METALS     method     imitibase     current     history1        Nickel     ppm     ASTM D5186     <0	Sample Number		Client Info		PE0002364		
Oil Age     hrs     Client Info     0         Oil Changed     Client Info     Not Changed         Sample Status     Image     Image     ABNORMAL         CONTAMINATION     method     limit/base     current     history1     history2       Water     WC Method     >.2     NEG         WEAR METALS     method     limit/base     current     history1     history2       PQ     ASTM D5185m     >500     167         Chromium     ppm     ASTM D5185m     >10     1         Nickel     ppm     ASTM D5185m     >10     1         Aluminum     ppm     ASTM D5185m     >25     15         Silver     ppm     ASTM D5185m     >25     0         Aluminum     ppm     ASTM D5185m     >50     7         Aluminum     ppm     ASTM D5185m     >11         Aluminum     ppm     ASTM D5185m     <11	Sample Date		Client Info		27 Jul 2023		
Oli Changed         Client Info         Not Changd             Sample Status         Tethod         limit/base         current         history1         history2           Water         WC Method         >0.2         NEG             WEAR METALS         method         limit/base         current         history1         history2           PQ         ASTM D8186m         >500         167             Iron         ppm         ASTM D8186m         >500         167             Okickel         ppm         ASTM D8186m         >10         1             Silver         ppm         ASTM D5185m         >10         1             Qandium         ppm         ASTM D5185m         >25         0             Copper         ppm         ASTM D5185m         >50         7             Manduim         ppm         ASTM D5185m         >50         7             Copper         ppm         ASTM D5185m         25         0	Machine Age	hrs	Client Info		2893		
Sample Status         Imit bodi         ABNORMAL             CONTAMINATION         method         limit/base         current         history1         history2           Water         WC Method         >0.2         NEG             WEAR METALS         method         limit/base         current         history1         history2           PQ         ASTM D8184         90              Iron         ppm         ASTM D5185m         >500         167             Nickel         ppm         ASTM D5185m         >10         4             Silver         ppm         ASTM D5185m         >25         15             Lead         ppm         ASTM D5185m         >50         7             Copper         ppm         ASTM D5185m         >50         7             Cadmium         ppm         ASTM D5185m         <1	Oil Age	hrs	Client Info		0		
CONTAMINATION         method         limit/base         current         history1         history2           Water         WC Method         >0.2         NEG             WEAR METALS         method         limit/base         current         history1         history2           PQ         ASTM D8184         90              Chromium         ppm         ASTM D5185m         >10         1             Nickel         ppm         ASTM D5185m         <11	Oil Changed		Client Info		Not Changd		
Water     WC Method     >0.2     NEG         WEAR METALS     method     limit/base     current     history1     history2       PQ     ASTM D8184     90         Iron     ppm     ASTM D5185m     >500     167         Chromium     ppm     ASTM D5185m     >10     4         Nickel     ppm     ASTM D5185m     >10     4         Silver     ppm     ASTM D5185m     >10     4         Auminum     ppm     ASTM D5185m     >10     4         Auminum     ppm     ASTM D5185m     >25     15         Silver     ppm     ASTM D5185m     >50     7         Copper     ppm     ASTM D5185m     >50     7         Vanadium     ppm     ASTM D5185m     >10     <1	Sample Status				ABNORMAL		
WEAR METALS         method         limit/base         current         history1         history2           PQ         ASTM D8184         90              Iron         ppm         ASTM D8185m         >500         167             Chromium         ppm         ASTM D5185m         >10         1             Nickel         ppm         ASTM D5185m         >10         4             Nickel         ppm         ASTM D5185m         >10         4             Aluminum         ppm         ASTM D5185m         >25         15             Lead         ppm         ASTM D5185m         >50         7             Copper         ppm         ASTM D5185m         >10         <1             Cadmium         ppm         ASTM D5185m         >10         <1             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         313 <t< th=""><th>CONTAMINATION</th><th>N</th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></t<>	CONTAMINATION	N	method	limit/base	current	history1	history2
PQ     ASTM D8184     90        Iron     ppm     ASTM D5185m     >500     167        Nickel     ppm     ASTM D5185m     >10     1        Nickel     ppm     ASTM D5185m     >10     4        Silver     ppm     ASTM D5185m     >10     4        Aluminum     ppm     ASTM D5185m     >25     15        Lead     ppm     ASTM D5185m     >25     0        Copper     ppm     ASTM D5185m     >50     7        Andluminum     ppm     ASTM D5185m     >10     <1        Vanadium     ppm     ASTM D5185m     >10     <1        Vanadium     ppm     ASTM D5185m     <15         ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     1313         Magnesse     ppm     ASTM D5185m     22         Magnesium     ppm     ASTM D5185m     22         Magnesium     ppm     ASTM D5185m     22	Water		WC Method	>0.2	NEG		
Image         ppm         ASTM D5185m         >500         167             Chromium         ppm         ASTM D5185m         >10         1             Nickel         ppm         ASTM D5185m         >10         4             Silver         ppm         ASTM D5185m         >25         15             Lead         ppm         ASTM D5185m         >25         0             Copper         ppm         ASTM D5185m         >25         0             Cadmium         ppm         ASTM D5185m         >25         0             Cadmium         ppm         ASTM D5185m         >50         7             Cadmium         ppm         ASTM D5185m         >10         <1             ADDITIVES         method         Imit/base         current         History1         History2           Boron         ppm         ASTM D5185m         3              Magnesium         ppm         ASTM D5185m         22	WEAR METALS		method	limit/base	current	history1	history2
Chromium         ppm         ASTM D5185m         >10         1             Nickel         ppm         ASTM D5185m         >10         4             Titanium         ppm         ASTM D5185m               Silver         ppm         ASTM D5185m         >25         15             Aluminum         ppm         ASTM D5185m         >25         0             Lead         ppm         ASTM D5185m         >25         0             Copper         ppm         ASTM D5185m         >25         0             Vanadium         ppm         ASTM D5185m         >10         <1	PQ		ASTM D8184		90		
Nickel         ppm         ASTM D5185m         >10         4             Titanium         ppm         ASTM D5185m         <1	Iron	ppm	ASTM D5185m	>500	167		
Titanium       ppm       ASTM D5185m       <1	Chromium	ppm	ASTM D5185m	>10	1		
Silver         ppm         ASTM D5185m         0             Aluminum         ppm         ASTM D5185m         >25         15             Lead         ppm         ASTM D5185m         >25         0             Copper         ppm         ASTM D5185m         >50         7             Tin         ppm         ASTM D5185m         >10         <1	Nickel	ppm	ASTM D5185m	>10	4		
Aluminum       ppm       ASTM D5185m       >25       15           Lead       ppm       ASTM D5185m       >50       7           Copper       ppm       ASTM D5185m       >50       7           Tin       ppm       ASTM D5185m       >10       <1	Titanium	ppm	ASTM D5185m		<1		
Lead         ppm         ASTM D5185m         >25         0             Copper         ppm         ASTM D5185m         >50         7             Tin         ppm         ASTM D5185m         >10         <1	Silver	ppm	ASTM D5185m		0		
Copper         ppm         ASTM D5185m         >50         7             Tin         ppm         ASTM D5185m         >10         <1	Aluminum	ppm	ASTM D5185m	>25	15		
Tin         ppm         ASTM D5185m         >10         <1             Vanadium         ppm         ASTM D5185m         <1	Lead	ppm	ASTM D5185m	>25	0		
Vanadium         ppm         ASTM D5185m         <1             Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         313             Barium         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         42             Manganesum         ppm         ASTM D5185m         2             Magnesium         ppm         ASTM D5185m         2             Calcium         ppm         ASTM D5185m         20234             Sulfur         ppm         ASTM D5185m         >75         56             Sulfur         ppm         ASTM D5185m         >20         2             Sulfur         ppm         ASTM D5185m         >20	Copper	ppm	ASTM D5185m	>50	7		
Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         313             Barium         ppm         ASTM D5185m         313             Molybdenum         ppm         ASTM D5185m         42             Magnese         ppm         ASTM D5185m         42             Magnesium         ppm         ASTM D5185m         2             Magnesium         ppm         ASTM D5185m         24             Calcium         ppm         ASTM D5185m         24             Magnesium         ppm         ASTM D5185m         24             Sulfur         ppm         ASTM D5185m         20234             Sulfur         ppm         ASTM D5185m         >75         56             Sulfur         ppm         ASTM D5185m         >20         2	Tin	ppm	ASTM D5185m	>10	<1		
ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         313             Barium         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         42             Manganese         ppm         ASTM D5185m         42             Magnesium         ppm         ASTM D5185m         2             Calcium         ppm         ASTM D5185m         24             Calcium         ppm         ASTM D5185m         882             Sulfur         ppm         ASTM D5185m         882             Sulfur         ppm         ASTM D5185m         20234             Sulfur         ppm         ASTM D5185m         >75         56             Sodium         ppm         ASTM D5185m         >20         2             Potassium         ppm         ASTM D5185m         >20	Vanadium	ppm	ASTM D5185m		<1		
Boron         ppm         ASTM D5185m         313             Barium         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         42             Manganese         ppm         ASTM D5185m         42             Magnesium         ppm         ASTM D5185m         2             Calcium         ppm         ASTM D5185m         24             Calcium         ppm         ASTM D5185m         24             Calcium         ppm         ASTM D5185m         882             Zinc         ppm         ASTM D5185m         4             Sulfur         ppm         ASTM D5185m         20234             Sulfur         ppm         ASTM D5185m         >75         56             Sodium         ppm         ASTM D5185m         >20         2             FLUID CLEANLINESS         method         limit/base         current         <	Cadmium	ppm	ASTM D5185m		0		
Barium         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         42             Manganese         ppm         ASTM D5185m         2             Magnesium         ppm         ASTM D5185m         2             Calcium         ppm         ASTM D5185m         24             Calcium         ppm         ASTM D5185m         882             Phosphorus         ppm         ASTM D5185m         44             Sulfur         ppm         ASTM D5185m         20234             Sulfur         ppm         ASTM D5185m         >75         56             Sodium         ppm         ASTM D5185m         >20         2             Potassium         ppm         ASTM D5185m         >20         2             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647							
Molybdenum         ppm         ASTM D5185m         42             Manganese         ppm         ASTM D5185m         3             Magnesium         ppm         ASTM D5185m         2             Calcium         ppm         ASTM D5185m         24             Calcium         ppm         ASTM D5185m         882             Phosphorus         ppm         ASTM D5185m         4             Zinc         ppm         ASTM D5185m         4             Sulfur         ppm         ASTM D5185m         20234             Sulfur         ppm         ASTM D5185m         >75         56             Sodium         ppm         ASTM D5185m         >20         2             Potassium         ppm         ASTM D5185m         >20         2             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647	ADDITIVES		method	limit/base	current	history1	history2
Manganese         ppm         ASTM D5185m         3             Magnesium         ppm         ASTM D5185m         2             Calcium         ppm         ASTM D5185m         24             Calcium         ppm         ASTM D5185m         24             Phosphorus         ppm         ASTM D5185m         882             Zinc         ppm         ASTM D5185m         4             Sulfur         ppm         ASTM D5185m         4             Sulfur         ppm         ASTM D5185m         20234             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >75         56             Sodium         ppm         ASTM D5185m         >20         2             Potassium         ppm         ASTM D5185m         >20         2             FLUID CLEANLINESS         method         limit	ADDITIVES Boron	ppm		limit/base			
Magnesium         ppm         ASTM D5185m         2             Calcium         ppm         ASTM D5185m         24             Phosphorus         ppm         ASTM D5185m         882             Zinc         ppm         ASTM D5185m         4             Sulfur         ppm         ASTM D5185m         20234             Sulfur         ppm         ASTM D5185m         20234             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >75         56             Sodium         ppm         ASTM D5185m         >20         2             Potassium         ppm         ASTM D5185m         >20         2             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >20000         228515             Particles >6µm			ASTM D5185m	limit/base	313		
Calcium         ppm         ASTM D5185m         24             Phosphorus         ppm         ASTM D5185m         882             Zinc         ppm         ASTM D5185m         4             Sulfur         ppm         ASTM D5185m         20234             Sulfur         ppm         ASTM D5185m         20234             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >75         56             Sodium         ppm         ASTM D5185m         >20         2             Potassium         ppm         ASTM D5185m         >20         2             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >20000         228515             Particles >6µm         ASTM D7647         >5000         167325             Particles >	Boron	ppm	ASTM D5185m ASTM D5185m	limit/base	313 0		
Phosphorus         ppm         ASTM D5185m         882             Zinc         ppm         ASTM D5185m         4             Sulfur         ppm         ASTM D5185m         20234             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >75         56             Sodium         ppm         ASTM D5185m         >75         56             Potassium         ppm         ASTM D5185m         >20         2             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >20000         228515             Particles >6µm         ASTM D7647         >5000         167325             Particles >1µm         ASTM D7647         >640         9734             Particles >38µm         ASTM D7647         >160         1087	Boron Barium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	313 0 42		
Zinc         ppm         ASTM D5185m         4             Sulfur         ppm         ASTM D5185m         20234             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >75         56             Sodium         ppm         ASTM D5185m         >75         56             Sodium         ppm         ASTM D5185m         >20         2             Potassium         ppm         ASTM D5185m         >20         2             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >20000         228515             Particles >6µm         ASTM D7647         >5000         167325             Particles >14µm         ASTM D7647         >640         9734             Particles >38µm         ASTM D7647         >40         35    <	Boron Barium Molybdenum	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	313 0 42 3		
SulfurppmASTM D5185m20234CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>7556SodiumppmASTM D5185m>202PotassiumppmASTM D5185m>202FLUID CLEANLINESSmethodlimit/basecurrenthistory1history2Particles >4µmASTM D7647>20000228515Particles >6µmASTM D7647>5000167325Particles >14µmASTM D7647>6409734Particles >21µmASTM D7647>1601087Particles >38µmASTM D7647>4035	Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	313 0 42 3 2		
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >75         56             Sodium         ppm         ASTM D5185m         >75         56             Potassium         ppm         ASTM D5185m         >20         2             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >20000         228515             Particles >6µm         ASTM D7647         >5000         167325             Particles >14µm         ASTM D7647         >640         9734             Particles >21µm         ASTM D7647         >160         1087             Particles >38µm         ASTM D7647         >40         35	Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	313 0 42 3 2 24	  	
Silicon         ppm         ASTM D5185m         >75         56             Sodium         ppm         ASTM D5185m         2              Potassium         ppm         ASTM D5185m         >20         2             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >20000         228515             Particles >6µm         ASTM D7647         >5000         167325             Particles >14µm         ASTM D7647         >640         9734             Particles >21µm         ASTM D7647         >160         1087             Particles >38µm         ASTM D7647         >40         35	Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	313 0 42 3 2 24 882	   	
Sodium         ppm         ASTM D5185m         2             Potassium         ppm         ASTM D5185m         >20         2             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >20000         228515             Particles >6µm         ASTM D7647         >5000         167325             Particles >6µm         ASTM D7647         >640         9734             Particles >21µm         ASTM D7647         >160         1087             Particles >38µm         ASTM D7647         >40         35	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	313 0 42 3 2 24 882 4	   	
Potassium         ppm         ASTM D5185m         >20         2             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >20000         228515             Particles >6µm         ASTM D7647         >5000         167325             Particles >14µm         ASTM D7647         >640         9734             Particles >21µm         ASTM D7647         >160         1087             Particles >38µm         ASTM D7647         >40         35	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		313 0 42 3 2 24 882 4 20234		
FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       >20000       228515           Particles >6µm       ASTM D7647       >5000       167325           Particles >14µm       ASTM D7647       >640       9734           Particles >21µm       ASTM D7647       >160       1087           Particles >38µm       ASTM D7647       >40       35	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	313 0 42 3 2 24 882 4 20234 current		
Particles >4μm       ASTM D7647       >20000       228515           Particles >6μm       ASTM D7647       >5000       167325           Particles >14μm       ASTM D7647       >640       9734           Particles >21μm       ASTM D7647       >160       1087           Particles >38μm       ASTM D7647       >40       35	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	limit/base	313 0 42 3 2 24 882 4 20234 current 56	     history1	    history2
Particles >6µm         ASTM D7647         >5000         ▲ 167325             Particles >14µm         ASTM D7647         >640         ▲ 9734             Particles >21µm         ASTM D7647         >160         ▲ 1087             Particles >38µm         ASTM D7647         >40         35	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >75	313 0 42 3 2 24 882 4 20234 current 56 2	      history1	     history2
Particles >14μm         ASTM D7647         >640         ▲ 9734             Particles >21μm         ASTM D7647         >160         ▲ 1087             Particles >38μm         ASTM D7647         >40         35	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >75 >20	313 0 42 3 2 24 882 4 20234 current 56 2 2 2	     history1  	     history2
Particles >21μm         ASTM D7647         >160         ▲ 1087             Particles >38μm         ASTM D7647         >40         35	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >75 >20 limit/base	313 0 42 3 2 24 882 4 20234 current 56 2 2 2 2 current	     history1    history1	     history2   history2
Particles >38μm         ASTM D7647         >40         35	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >75 >20 limit/base >20000	313 0 42 3 2 24 882 4 20234 <i>current</i> 56 2 2 2 <i>current</i> 2 2	     history1   history1	    history2  history2
Particles >38μm         ASTM D7647         >40         35	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >75 >20 limit/base >20000 >5000	313 0 42 3 2 24 882 4 20234 <u>current</u> 56 2 2 2 2 <u>current</u> 2 2 1 167325	     history1   history1  	     history2   history2
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7647 ASTM D7647	limit/base >75 >20 limit/base >20000 >5000 >5000 >640	313 0 42 3 2 24 882 4 20234 current 56 2 2 2 2 current 2 2 current 1 6 3 2 2 2 2 2 2 2 2 2 2 2 2 2	     history1  history1  history1	     history2  history2
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m         ASTM D5185m	limit/base >75 >20 limit/base >20000 >5000 >5000 >640 >160	313 0 42 3 2 24 882 4 20234 current 56 2 2 2 current ▲ 228515 ▲ 167325 ▲ 9734 ▲ 1087	      history1   history1  history1	      history2  history2  history2 

ISO 4406 (c) >21/19/16 🔺 25/25/20

**Oil Cleanliness** 



# **OIL ANALYSIS REPORT**

- ••••••••••••••••••••••••••••••••••••	Acid Number (AN)	mg KOH/g	ASTM D8045		1.80		
	VISUAL		method	limit/base	e curren	t history1	history
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
Abnormal	Precipitate	scalar	*Visual	NONE	NONE		
- 52/[2]uL	Silt	scalar	*Visual	NONE	NONE		
Slut	Debris	scalar	*Visual	NONE	A MODER		
PQ	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
Severe	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
Abnormal	Free Water	scalar	*Visual		NEG		
	FLUID PROPER	TIES	method	limit/base	e curren	t history1	history
	Visc @ 40°C	cSt	ASTM D445	364	🔺 145		
Jul27/23 -	SAMPLE IMAGE	S	method	limit/base	e curren	t history1	history
Particle Trend	Color					no image	no image
	Bottom					no image	no image
Abnormal	GRAPHS						
, 10/12/23 + جور 10/12/23 +	Ferrous Alloys				A Particle C	ount	
Jul2	200			491,5	520		
Acid Number	150 - chromium			122,8	880		
	E 100 nickel			30,7	720 Abnormal		
				= 7,6	s80		
	27/23			7/2: 1 m			
	Jul27/			Inf 1.5	920-		
	Non-ferrous Meta	ls		particl	480-		
	10 copper 1			nber of 1	120-	· · · · · · · · · · · · · · · · · · ·	
	- lead				30-		
co.rci1	ā. 5+tin				50		
					8-		
PQ	27/23			27/23	2-		1
1	Lu C			Jul27	0 4µ 6µ	14µ 21µ	38µ 71
Severe	Viscosity @ 40°C			_	Acid Num		30μ 11)
	500 Abnormal			Number (mg KOH/g)	2.0		
Abnormal	G 400 - Base ⊕ 300 - Abnormal			(mg K	1.5		
	중 200			mber	1.0		
	100			3+	0.5		
				7/23	2		
2.7.1.51.bL	Jul27/23			Jul27/23	Jul27		
TESTING LABORATORY Unique Number	: WearCheck USA - 50 : PE0002364 • : 06138444 • : 10963252 • : CONST ( Additional T	Recei Teste Diagr	ived : 04 ed : 09 nosed : 09	Apr 2024 Apr 2024 Apr 2024 - An	ngela Borella		7 US HWY 1 IDA PARK, \ US 985

Report Id: ALTAMA [WUSCAR] 06138444 (Generated: 04/09/2024 09:29:37) Rev: 1

Contact/Location: ROGER TJEPKEMA - ALTAMA