

OIL ANALYSIS REPORT

Area HOTLINE/120 MILL 120 MILL MTR STAND 1 CENTER BRG 1415-033-0122

Component Center Bearing

Fluid ROYAL PURPLE SYNFILM GT 68 (30 GAL)

DIAGNOSIS

A Recommendation

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

Wear

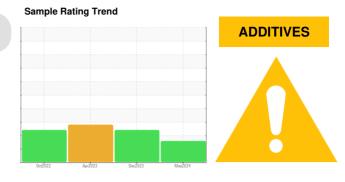
All component wear rates are normal.

Contamination

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

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.



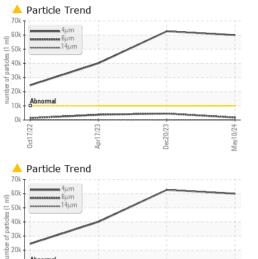
CONTAMINATIONmethodlimit/basecurrenthistory1history2WaterWC Method>2NEGNEGNEGWEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTM D5185m>200<11ChromiumppmASTM D5185m>200<10NickelppmASTM D5185m>20100NickelppmASTM D5185m>20100SilverppmASTM D5185m>20<12<1LeadppmASTM D5185m>202221<72CopperppmASTM D5185m>20115TinppmASTM D5185m>201412<433VanadiumppmASTM D5185m>201412<433VanadiumppmASTM D5185m0000ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m0000BariumppmASTM D5185m0000MolybdenumppmASTM D5185m0000ManganeseppmASTM D5185m0000ManganesiumppmASTM D5185m0000ManganesiumppmASTM D5185m0000Manganesium <th>SAMPLE INFORM</th> <th>IATION</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2		
Sample Date Client Info 10 May 2024 20 Dec 2023 17 Apr 2023 Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info 0 0 0 0 Oil Changed Client Info N/A N/A N/A ABNORMAL ABNORMAL ABNORMAL CONTAMINATION method limitbase current history1 history2 War WC Method >2 NEG NEG NEG WEAR METALS method limitbase current history1 fistory2 Iron ppm ASTM 05185m >20 0 <1 0 0 Okckel ppm ASTM 05185m >20 1 0 0 0 Mumium ppm ASTM 05185m >20 21 4 32 Audium ppm ASTM 05185m 20 14 12 4 33 Nanadium ppm ASTM 05185m	Sample Number		Client Info		KFS0004794	KFS0002511	KFS0003401		
Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info N/A N/A N/A N/A Sample Status Client Info N/A ABNORMAL ABNORMAL ABNORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method >2 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 0 <1			Client Info						
Oil Age hrs Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A N/A Sample Status Client Info N/A ABNORMAL ABNORMAL ABNORMAL CONTAMINATION method Imit/base current history1 history2 Water WC Method >2 NEG NEG NEG Contramin ppm ASTM 0515m >20 0 <1		hrs							
Oil Changed Client Info N/A N/A N/A ABNORMAL ABNORMAL ABNORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method >2 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185n >20 0 <1 1 Oktored ppm ASTM D5185n >20 0 <1 0 0 Nickel ppm ASTM D5185n >20 1 0 0 0 Aluminum ppm ASTM D5185n >20 21 1 5 Lead ppm ASTM D5185n >20 14 12 43 Vanadium ppm ASTM D5185n >20 14 12 43 Vanadium ppm ASTM D5185n 20 0 0 0 ASTM D5185n 0 0<	0		Client Info						
Sample Status Method Imit/base Current history1 ABNORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method >2 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 0 <1	-					N/A	N/A		
Water WC Method >2 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 0 <1	43 Vanadium ppm ASTM D5185m >20 14 12 < <td><1</td> Vanadium ppm ASTM D5185m 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Adatium ppm ASTM D5185m 0 0 0 0 Adatium ppm ASTM D5185m 0 0 0 1	<1	Sample Status						
Water WC Method >2 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 0 <1	43 Vanadium ppm ASTM D5185m >20 14 12 < <td><1</td> Vanadium ppm ASTM D5185m 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Adatium ppm ASTM D5185m 0 0 0 0 Adatium ppm ASTM D5185m 0 0 0 1	<1	CONTAMINATION	N	method	limit/base	current	history1	history2
Iron ppm ASTM D5185m >20 0 <1 1 Chromium ppm ASTM D5185m >20 0 <1			WC Method	>2	NEG				
Chromium ppm ASTM D5185m >20 0 <1 0 Nickel ppm ASTM D5185m >20 1 0 0 Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m >20 21 2 <1	WEAR METALS		method	limit/base	current	history1	history2		
Nickel ppm ASTM D5185m >20 1 0 0 Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m 20 21 2 - Lead ppm ASTM D5185m >20 22 21 A 72 Copper ppm ASTM D5185m >20 1 1 5 Tin ppm ASTM D5185m >20 14 12 43 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 1 Magnesium ppm ASTM D5185m 0 0 1 2 Phosphorus ppm ASTM D5185m 0 0 1	Iron	ppm	ASTM D5185m	>20	0	<1	1		
Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m S20 <1	Chromium	ppm	ASTM D5185m	>20	0	<1	0		
Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >20 <1	Nickel	ppm	ASTM D5185m	>20	1	0	0		
Aluminum ppm ASTM D5185m >20 <1 2 <1 Lead ppm ASTM D5185m >20 22 21 A 72 Copper ppm ASTM D5185m >20 1 1 5 Tin ppm ASTM D5185m >20 14 12 A 43 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 Magnesium ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 90 8 7 90 Calcium ppm ASTM D5185m 90 8 7 90 Calcium ppm ASTM D5185m 0 0 1	Titanium	ppm	ASTM D5185m		0	0	0		
Lead ppm ASTM D5185m >20 22 21 ▲ 72 Copper ppm ASTM D5185m >20 1 1 5 Tin ppm ASTM D5185m >20 14 12 ▲ 43 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 Magnagnese ppm ASTM D5185m 0 0 0 1 Magnesium ppm ASTM D5185m 90 8 7 90 Calcium ppm ASTM D5185m 90 8 7 90 Callour ppm ASTM D5185m 90 8 5217 22494 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >1 0 <	Silver	ppm	ASTM D5185m		0	0	0		
Copper ppm ASTM D5185m >20 1 1 5 Tin ppm ASTM D5185m >20 14 12 43 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 Magnaese ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 90 8 7 90 Calcium ppm ASTM D5185m 90 8 7 90 Calcium ppm ASTM D5185m 90 8 7 90 Calcium ppm ASTM D5185m 90 0 1 1 2 Phosphorus ppm ASTM D5185m 90 6335 <	Aluminum	ppm	ASTM D5185m	>20	<1	2	<1		
Tin ppm ASTM D5185m >20 14 12 43 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 Barium ppm ASTM D5185m 0 0 0 0 Magnese ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 90 8 7 90 Calcium ppm ASTM D5185m 90 8 7 90 Calcium ppm ASTM D5185m 90 8 7 90 Calcium ppm ASTM D5185m 1 <1	Lead				22	21	▲ 72		
Tin ppm ASTM D5185m >20 14 12 43 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 0 0 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 90 8 7 90 Calcium ppm ASTM D5185m 90 6 6335 5217 22494 Sulfur ppm ASTM D5185m >15 0 <1 0 <1 Sodi	Copper	ppm	ASTM D5185m	>20	1	1	5		
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 90 8 7 90 Calcium ppm ASTM D5185m 90 8 7 90 Calcium ppm ASTM D5185m 90 8 7 90 Calcium ppm ASTM D5185m 90 8 7 90 Sulfur ppm ASTM D5185m 90 8 7 22494 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 0 <1 0		ppm	ASTM D5185m	>20	14	12	4 3		
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 90 8 7 90 Calcium ppm ASTM D5185m 90 8 7 90 Calcium ppm ASTM D5185m 90 8 7 90 Calcium ppm ASTM D5185m 90 8 7 90 Sulfur ppm ASTM D5185m 90 8 7 90 Sulfur ppm ASTM D5185m 49 6333 6 7 Sulfur ppm ASTM D5185m >15 0 <1 0	Vanadium		ASTM D5185m		0	0	0		
Boron ppm ASTM D5185m 0 0 0 Barium ppm ASTM D5185m <1	Cadmium		ASTM D5185m		0	0	0		
Barium ppm ASTM D5185m <1	ADDITIVES		method	limit/base	current	history1	history2		
Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m 90 8 7 90 Calcium ppm ASTM D5185m 90 8 7 90 Calcium ppm ASTM D5185m 90 8 7 90 Calcium ppm ASTM D5185m 90 83 6 Zinc ppm ASTM D5185m 49 83 6 Sulfur ppm ASTM D5185m 6035 5217 22494 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 0 <1	Boron	ppm	ASTM D5185m		0	0	0		
Manganese ppm ASTM D5185m <1 0 <1 Magnesium ppm ASTM D5185m 90 8 7 90 Calcium ppm ASTM D5185m 90 8 7 90 Calcium ppm ASTM D5185m 49 83 6 Zinc ppm ASTM D5185m 0 0 1 Sulfur ppm ASTM D5185m 0 0 1 Sulfur ppm ASTM D5185m 6035 5217 22494 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 0 <1	Barium	ppm	ASTM D5185m		<1	0	0		
Magnesium ppm ASTM D5185m 90 8 7 90 Calcium ppm ASTM D5185m 1 <1	Molybdenum	ppm	ASTM D5185m		0	0	0		
Calcium ppm ASTM D5185m 1 <1 <1 2 Phosphorus ppm ASTM D5185m 49 83 6 Zinc ppm ASTM D5185m 0 0 1 Sulfur ppm ASTM D5185m 0 0 1 Sulfur ppm ASTM D5185m 66035 5217 22494 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 0 <1	-	ppm	ASTM D5185m		<1	0	<1		
Phosphorus ppm ASTM D5185m 49 83 6 Zinc ppm ASTM D5185m 0 0 1 Sulfur ppm ASTM D5185m 0 0 1 Sulfur ppm ASTM D5185m 6035 5217 22494 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 0 <1	Magnesium	ppm	ASTM D5185m	90	8 🛑	7	90		
Zinc ppm ASTM D5185m 0 0 1 Sulfur ppm ASTM D5185m 6035 5217 22494 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 0 <1									
Sulfur ppm ASTM D5185m 6035 5217 22494 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 0 <1	Calcium	ppm	ASTM D5185m		1	<1	2		
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 0 <1									
Silicon ppm ASTM D5185m >15 0 <1 0 Sodium ppm ASTM D5185m >15 0 <1 0 <1 Potassium ppm ASTM D5185m >20 2 <1 0 <1 Potassium ppm ASTM D5185m >20 2 <1 0 <1 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 ▲ 59961 ▲ 62626 ▲ 40064 Particles >6µm ASTM D7647 >2500 1742 4521 3712 Particles >14µm ASTM D7647 >160 17 21 77 Particles >21µm ASTM D7647 >40 4 5 11 Particles >38µm ASTM D7647 >10 0 1 1 Particles >71µm ASTM D7647 >3 0 0 0 23/19/12 23/19/13 FLUID DEGRADATION method limit/base current history1 history2	Phosphorus	ppm	ASTM D5185m		49	83	6		
Sodium ppm ASTM D5185m <1 0 <1 Potassium ppm ASTM D5185m >20 2 <1	Phosphorus Zinc	ppm ppm	ASTM D5185m ASTM D5185m		49 0	83 0	6 1		
Potassium ppm ASTM D5185m >20 2 <1 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 59961 4 62626 4 40064 Particles >6µm ASTM D7647 >2500 1742 4521 3712 Particles >14µm ASTM D7647 >160 17 21 77 Particles >21µm ASTM D7647 >40 4 5 11 Particles >38µm ASTM D7647 >10 0 1 1 Particles >38µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/14 23/18/11 23/19/12 23/19/13 FLUID DEGRADATION method limit/base current history1 history2	Phosphorus Zinc Sulfur	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	49 0 6035	83 0 5217	6 1 22494		
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 59961 62626 40064 Particles >6µm ASTM D7647 >2500 1742 4521 3712 Particles >14µm ASTM D7647 >160 17 21 77 Particles >21µm ASTM D7647 >40 4 5 11 Particles >38µm ASTM D7647 >10 0 1 1 Particles >38µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/14 23/18/11 23/19/12 23/19/13 FLUID DEGRADATION method limit/base current history1 history2	Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method		49 0 6035 current	 83 0 5217 history1 	6 1 22494 history2		
Particles >4μm ASTM D7647 >10000 ▲ 59961 ▲ 62626 ▲ 40064 Particles >6μm ASTM D7647 >2500 1742 ④ 4521 ③ 3712 Particles >14μm ASTM D7647 >160 17 21 77 Particles >21μm ASTM D7647 >40 4 5 11 Particles >21μm ASTM D7647 >10 0 1 1 Particles >38μm ASTM D7647 >30 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/14 23/18/11 23/19/12 23/19/13	Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m		49 0 6035 current 0	 83 0 5217 history1 <1 	6 1 22494 history2 0		
Particles >6µm ASTM D7647 >2500 1742 4521 3712 Particles >14µm ASTM D7647 >160 17 21 77 Particles >21µm ASTM D7647 >40 4 5 11 Particles >38µm ASTM D7647 >10 0 1 1 Particles >38µm ASTM D7647 >3 0 0 0 Oli Cleanliness ISO 4406 (c) >20/18/14 23/18/11 23/19/12 23/19/13 FLUID DEGRADATION method limit/base current history1 history2	Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	>15	49 0 6035 <u>current</u> 0 <1	 83 0 5217 history1 <1 0 	6 1 22494 history2 0 <1		
Particles >14µm ASTM D7647 >160 17 21 77 Particles >21µm ASTM D7647 >40 4 5 11 Particles >38µm ASTM D7647 >10 0 1 1 Particles >38µm ASTM D7647 >3 0 0 0 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/14 23/18/11 23/19/12 23/19/13 FLUID DEGRADATION method limit/base current history1 history2	Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	>15 >20	49 0 6035 <u>current</u> 0 <1 2	 83 0 5217 history1 <1 0 <1 	6 1 22494 history2 0 <1 0		
Particles >21μm ASTM D7647 >40 4 5 11 Particles >38μm ASTM D7647 >10 0 1 1 Particles >38μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/14 23/18/11 23/19/12 23/19/13 FLUID DEGRADATION method limit/base current history1 history2	Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	>15 >20 limit/base	49 0 ● 6035 <u>current</u> 0 <1 2 <u>current</u> 8 ● 59961	 83 0 5217 history1 <1 0 <1 history1 ▲ 62626 	6 1 22494 history2 0 <1 0 history2		
Particles >38μm ASTM D7647 >10 0 1 1 Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/14 23/18/11 23/19/12 23/19/13 FLUID DEGRADATION method limit/base current history1 history2	Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647	>15 >20 limit/base >10000 >2500	49 0 6035 <u>current</u> 0 <1 2 <u>current</u> \$59961 1742	 83 0 5217 history1 <1 0 <1 history1 ▲ 62626 	6 1 22494 history2 0 <1 0 1<br 0 history2 ▲ 40064 ● 3712		
Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/14 ▲ 23/18/11 ▲ 23/19/12 ▲ 23/19/13 FLUID DEGRADATION method limit/base current history1 history2	Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >10000 >2500 >160	49 0 6035 current 0 <1 2 current 2 59961 1742 17	 83 0 5217 history1 <1 0 <1 history1 62626 4521 21 	6 1 22494 0 <1 0 1<br 0 history2 ▲ 40064 ③ 3712 77		
Oil Cleanliness ISO 4406 (c) >20/18/14 23/18/11 23/19/12 23/19/13 FLUID DEGRADATION method limit/base current history1 history2	Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >10000 >2500 >160 >40	49 0 6035 <u>current</u> 0 <1 2 2 <u>current</u> \$59961 1742 17 4	 83 0 5217 history1 <1 0 <1 history1 ▲ 62626 4521 21 5 	6 1 22494 history2 0 <1 0 1<br 0 history2 ▲ 40064 3712 77 11		
FLUID DEGRADATION method limit/base current history1 history2	Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >10000 >2500 >160 >40 >10	49 0 6035 current 0 <1 2 current 2 59961 1742 17 4 0	 83 0 5217 history1 <1 0 <1 history1 62626 4521 21 5 1 	6 1 22494 history2 0 <1 0 <1 0 0 history2 ▲ 40064 3712 77 11 11 1		
	Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >38µm Particles >71µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >10000 >2500 >160 >40 >10 >3	49 0 6035 current 0 <1 2 current 2 59961 1742 17 4 0 0 0	 83 0 5217 history1 <1 0 <1 62626 4521 21 5 1 0 	6 1 22494 0 <1 0 <1 0 0 history2 ▲ 40064 ● 3712 777 11 1 1 0		
Acid Number (AN) mg KOH/g ASTM D8045 0.31 0.28 0.39	Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >38µm Particles >71µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >10000 >2500 >160 >40 >10 >3	49 0 6035 current 0 <1 2 current 2 59961 1742 17 4 0 0 0	 83 0 5217 history1 <1 0 <1 62626 4521 21 5 1 0 	6 1 22494 0 <1 0 <1 0 0 history2 ▲ 40064 ● 3712 777 11 1 1 0		
	Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >38µm Particles >71µm Oil Cleanliness	ppm ppm ppm ppm ppm ESS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >10000 >2500 >160 >40 >10 >3 >3 >20/18/14	49 0 6035 current 0 <1 2 current 2 59961 1742 17 4 0 0 0 0 23/18/11	 83 0 5217 history1 <1 0 <1 62626 4521 21 5 1 0 23/19/12 	6 1 22494 0 <1 0 11 0 history2 ▲ 40064 3712 77 11 11 1 0 23/19/13		

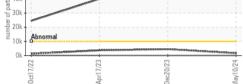
Report Id: CONMUSAL [WUSCAR] 06179331 (Generated: 05/16/2024 19:01:05) Rev: 1

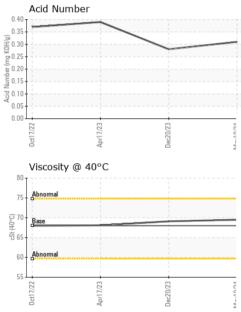
Submitted By: COLD MILL - Josh Edwards Page 1 of 2



OIL ANALYSIS REPORT



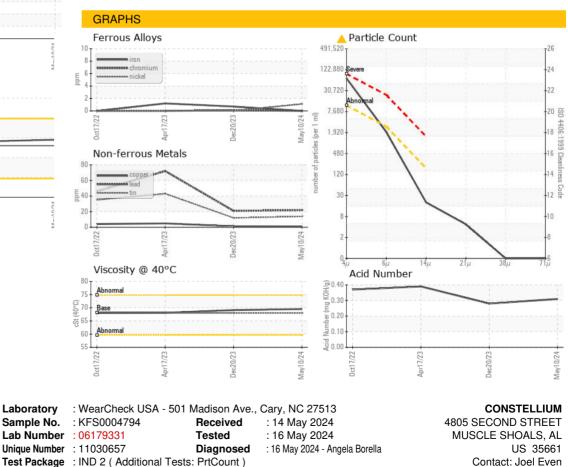




Certificate 12367

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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	>2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68	69.5	69.1	68.1
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						TER

Bottom



* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Report Id: CONMUSAL [WUSCAR] 06179331 (Generated: 05/16/2024 19:01:05) Rev: 1

Submitted By: COLD MILL - Josh Edwards

joel.even@constellium.com

Page 2 of 2

F:

T: (256)740-7490