

## **OIL ANALYSIS REPORT**

Sample Rating Trend

VISCOSITY



# 50W - DOUBLE DIAMOND

Component
New (Unused) Oil
Fluid

{not provided} (--- GAL)

#### DIAGNOSIS

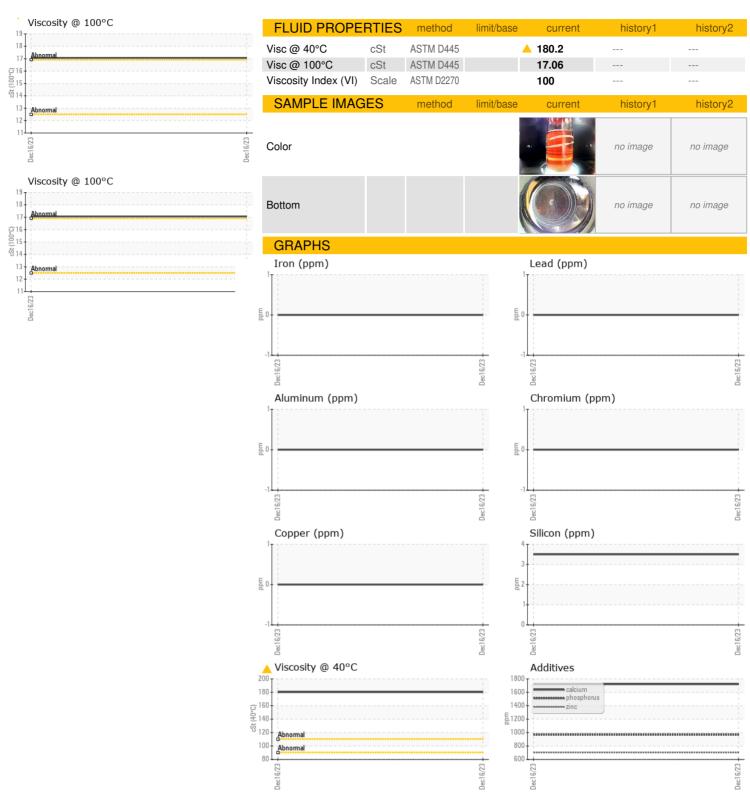
#### Recommendation

This is a baseline read-out on the submitted sample.

Client Info							
Sample Number   Client Info   PCA0107151					Dec2023		
Client Info	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Client Info   16 Dec 2023	Sample Number		Client Info		PCA0107151		
Machine Age         mls         Client Info         0             Oil Age         mls         Client Info         0             Did Changed         Client Info         N/A             Sample Status         MEAR         ABNORMAL             WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM 05185m         0              Chromium         ppm         ASTM 05185m         0              Nickel         ppm         ASTM 05185m         0              Silver         ppm         ASTM 05185m         0              Lead         ppm         ASTM 05185m         0              Copper         ppm         ASTM 05185m         0              Vanadium         ppm         ASTM 05185m         0              Caddmium         p	•		Client Info		16 Dec 2023		
Dil Age		mls	Client Info		0		
Dil Changed   Client Info   N/A	•	mls	Client Info		0		
MEAR METALS					N/A		
Chromium	Sample Status				ABNORMAL		
Chromium         ppm         ASTM D5185m         0             Nickel         ppm         ASTM D5185m         0             Titianium         ppm         ASTM D5185m         0             Aluminum         ppm         ASTM D5185m         0             Aluminum         ppm         ASTM D5185m         0             Lead         ppm         ASTM D5185m         0             Copper         ppm         ASTM D5185m         0             Vanadium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         0             Barium         ppm         ASTM D5185m         0             Barium         ppm         ASTM D5185m         0             Magnessum         ppm         ASTM D5185m         0             Magness	WEAR METAL	.S	method	limit/base	current	history1	history2
Chromium         ppm         ASTM D5185m         0             Nickel         ppm         ASTM D5185m         0             Siliver         ppm         ASTM D5185m         0             Aluminum         ppm         ASTM D5185m         0             Aluminum         ppm         ASTM D5185m         0             Lead         ppm         ASTM D5185m         0             Copper         ppm         ASTM D5185m         0             Vanadium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         0             Boron         ppm         ASTM D5185m         0             Barium         ppm         ASTM D5185m         0             Barium         ppm         ASTM D5185m         0             Barium	Iron	ppm	ASTM D5185m		0		
Nickel	Chromium		ASTM D5185m				
Description   Description					0		
ASTM D5185m	Titanium		ASTM D5185m		0		
ASTM D5185m   O	Silver						
Lead	Aluminum						
Copper	Lead						
Vanadium					-		
Vanadium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         116             Barium         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         1720             Phosphorus         ppm         ASTM D5185m         1720             Phosphorus         ppm         ASTM D5185m         704             Zinc         ppm         ASTM D5185m         12805             Zinc         ppm         ASTM D5185m         1             Soliton         ppm         ASTM D5185m         1	Tin				-		
Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0             Barium         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         0             Mangaesium         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         148             Calcium         ppm         ASTM D5185m         1704             Phosphorus         ppm         ASTM D5185m         704             Zinc         ppm         ASTM D5185m         12805             Zinc         ppm         ASTM D5185m         12805             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         1							
Boron	Cadmium						
Boron	ADDITIVES		method	limit/base	current	history1	history2
Barium		ppm	ASTM D5185m		116		
Molybdenum         ppm         ASTM D5185m         6             Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         148             Calcium         ppm         ASTM D5185m         1720             Phosphorus         ppm         ASTM D5185m         968             Zinc         ppm         ASTM D5185m         704             Sulfur         ppm         ASTM D5185m         12805             Sulfur         ppm         ASTM D5185m         4             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         4             Potassium         ppm         ASTM D5185m         1             Potassium         ppm         ASTM D5185m         20         <1							
Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         148             Calcium         ppm         ASTM D5185m         1720             Phosphorus         ppm         ASTM D5185m         968             Zinc         ppm         ASTM D5185m         704             Sulfur         ppm         ASTM D5185m         12805             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         4             Potassium         ppm         ASTM D5185m         >20         <1					-		
Magnesium         ppm         ASTM D5185m         148             Calcium         ppm         ASTM D5185m         1720             Phosphorus         ppm         ASTM D5185m         968             Zinc         ppm         ASTM D5185m         704             Sulfur         ppm         ASTM D5185m         12805             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         1             Sodium         ppm         ASTM D5185m         >20         <1	•						
Calcium         ppm         ASTM D5185m         1720             Phosphorus         ppm         ASTM D5185m         968             Zinc         ppm         ASTM D5185m         704             Sulfur         ppm         ASTM D5185m         12805             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         4             Sodium         ppm         ASTM D5185m         1             Potassium         ppm         ASTM D5185m         >20         <1	•				•		
Phosphorus         ppm         ASTM D5185m         968             Zinc         ppm         ASTM D5185m         704             Sulfur         ppm         ASTM D5185m         12805             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         4             Sodium         ppm         ASTM D5185m         20         <1             Potassium         ppm         ASTM D5185m         >20         <1             Water         %         ASTM D5185m         >20         <1             Water         %         ASTM D5185m         >20         <1             Water         %         ASTM D5185m         1              Water         %         ASTM D5185m         20         <1             Water         %         ASTM D5185m         1         NORE             V							
Total					-		
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         4             Sodium         ppm         ASTM D5185m         1             Potassium         ppm         ASTM D5185m         >20         <1							
Silicon	-				-		
Silicon	CONTAMINAN	ITS	method	limit/base	current	history1	history2
Sodium			ASTM D5185m		4		
Potassium         ppm         ASTM D5185m         >20         <1             Water         %         ASTM D6304         NEG             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NORML         NORML             Appearance         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         NORML         NORML					-		
Water         %         ASTM D6304         NEG             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE             Yellow Metal         scalar         *Visual         NONE         NONE            Precipitate         scalar         *Visual         NONE         NONE            Silt         scalar         *Visual         NONE         NONE            Debris         scalar         *Visual         NONE         NONE            Sand/Dirt         scalar         *Visual         NORML         NORML            Appearance         scalar         *Visual         NORML         NORML            Codor         scalar         *Visual         NORML         NORML            Emulsified Water         scalar         *Visual         NEG				>20			
White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NORML         NORML             Appearance         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         NEG							
Yellow Metal     scalar     *Visual     NONE     NONE       Precipitate     scalar     *Visual     NONE     NONE       Silt     scalar     *Visual     NONE     NONE       Debris     scalar     *Visual     NONE     NONE       Sand/Dirt     scalar     *Visual     NONE     NONE       Appearance     scalar     *Visual     NORML     NORML       Odor     scalar     *Visual     NORML     NORML       Emulsified Water     scalar     *Visual     NEG	VISUAL		method	limit/base	current	history1	history2
Yellow Metal         scalar         *Visual         NONE         NONE             Precipitate         scalar         *Visual         NONE         NONE             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NORML         NORML             Appearance         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         NEG	White Metal	scalar	*Visual	NONE	NONE		
Precipitate scalar *Visual NONE NONE  Silt scalar *Visual NONE NONE  Debris scalar *Visual NONE NONE  Sand/Dirt scalar *Visual NONE NONE  Appearance scalar *Visual NORML NORML  Odor scalar *Visual NORML NORML  Emulsified Water scalar *Visual NEG			*Visual				
Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual NEG	Precipitate						
Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         NEG							
Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual NEG							
Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual NEG							
Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual NEG							
Emulsified Water scalar *Visual NEG	• •						
	Free Water	scalar	*Visual		NEG		



### **OIL ANALYSIS REPORT**





Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0107151

: 06045750 : 10806358 Unique Number

Diagnostician : Jonathan Hester Test Package : MOB 1 (Additional Tests: FT-IR, ICP-NewOil, KF, KV100, VI)

Recieved

Diagnosed

: 26 Dec 2023

: 28 Dec 2023

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

\* - 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)

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