

WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

Machine Id **PALFINGER 100400003** Component Hydraulic System

{not provided} (--- GAL)

RECOMMENDATION

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

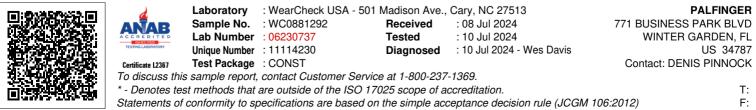
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

FLUID CONDITION

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

TestUOMMethodLimit MCurrentHistory1History2Sample DumberClient Info011 Ju224Machine AgehrsClient Info0Machine AgehrsClient Info0Oil AgehrsClient Info000Filter AgehrsClient InfoNot ChangedGil ChangedClient InfoNot ChangedSample StatusABNORIMALIronppmASTM D5185m>100NickelppmASTM D5185m>100SilverppmASTM D5185m>100LeadppmASTM D5185m>100AluminumppmASTM D5185m>100VanadiumppmASTM D5185m>100VanadiumppmASTM D5185m>202VanadiumppmASTM D5185m>202SiliconppmASTM D5185m>202VanadiumppmASTM D7647>500A13761Particles >4µmASTM D7647>500A13761SiliconppmASTM D7647>100Par							
Sample Date Client Info 01 Jul 2024 Machine Age hrs Client Info 3448 Oil Age hrs Client Info 1000 Oil Changed Client Info 1000 Filter Age hrs Client Info Changed Filter Changed Client Info Changed Sample Status ASTM D5185m >10 Nickel ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m >10 0 Aluminum ppm ASTM D5185m >10 0 Lead ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >20 2 Vanadium	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age hrs Client Info 3448 Filter Age hrs Client Info 100 Filter Age hrs Client Info Not Changed GOI Changed Client Info Not Changed Sample Status Client Info Not Changed Iron ppm ASTM D5185m<>2.0 6 Nickel ppm ASTM D5185m< 10 0 Silver ppm ASTM D5185m 10 1 Copper ppm ASTM D5185m 10 0 Tin ppm ASTM D5185m 510 0 Valadum ppm ASTM D5185m 2.0 2 Valadum ppm ASTM D5185m 2.0 2 V	Sample Number		Client Info		WC0881292		
Oil Age hrs Client Info 0 Filter Age hrs Client Info 1000 Oil Changed Client Info Not Changed Sample Status Client Info Changed Iron ppm ASTM D5185m >20 6 Nickel ppm ASTM D5185m >10 -1 Silver ppm ASTM D5185m >10 1 Aluminum ppm ASTM D5185m >10 1 Aluminum ppm ASTM D5185m >10 0 Vanadum ppm ASTM D5185m >10 0 Vanadum ppm ASTM D5185m >20 2 Vanadum ppm ASTM D5185m >20 2 Vanadu	Sample Date		Client Info		01 Jul 2024		
Filter Åge Oli Changed hrs Client Info Not Changd Filter Changed Client Info Not Changd Sample Status Client Info Changed Iron ppm ASTM D5185m >10 <1 Chromium ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m >10 0 Silver ppm ASTM D5185m >10 0 Copper ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 Vanatum ppm ASTM D5185m >20 2 Vanatum ppm ASTM D5185m >20 2 Valtor wCkethod >0.1 NEG <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>3448</th> <th></th> <th></th>	Machine Age	hrs	Client Info		3448		
Oil Changed Filter Changed Sample Status Client Info Not Changed Changed Iron ppm ASTM D5185m >20 6 Iron ppm ASTM D5185m >10 <1 Nickel ppm ASTM D5185m 10 0 Silver ppm ASTM D5185m 10 1 Aluminum ppm ASTM D5185m 10 0 Aluminum ppm ASTM D5185m 10 0 Vanadium ppm ASTM D5185m 0 0 Vanadium ppm ASTM D5185m 20 2 Veltow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m<>20 2 Particles >4µm ASTM D7647<>100 14	Oil Age	hrs	Client Info		0		
Filter Changed Sample Status Client Info Changed ABNORMAL Iron ppm ASTM D5185m >20 6 Iron ppm ASTM D5185m >10 <1 Nickel ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m >10 0 Aluminum ppm ASTM D5185m >10 0 Aluminum ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >20 2	Filter Age	hrs	Client Info		1000		
Filter Changed Sample Status Client Info Changed ABNORMAL Iron ppm ASTM D5185m<>20 6 Iron ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m >10 0 Aluminum ppm ASTM D5185m >10 0 Aluminum ppm ASTM D5185m >10 0 Aluminum ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0	Oil Changed		Client Info		Not Changd		
Sample Status ABNORMAL Iron ppm ASTM DS185m<>20 6 Chromium ppm ASTM DS185m<>10 0 Nickel ppm ASTM DS185m 0 0 Silver ppm ASTM DS185m 0 1 Lead ppm ASTM DS185m >10 0 Lead ppm ASTM DS185m >10 0 Vanadium ppm ASTM DS185m >10 0 Vanadium ppm ASTM DS185m >10 0 Vanadium ppm ASTM DS185m >20 2	Filter Changed		Client Info		v		
Iron ppm ASTM D5185m >20 6 Chromium ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m >10 0 Titanium ppm ASTM D5185m >10 1 Aluminum ppm ASTM D5185m >10 0 Lead ppm ASTM D5185m >10 0 Copper ppm ASTM D5185m >10 0 Vanadum ppm ASTM D5185m >10 0 Vanter wC MtD5185m >20 2 Vellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >20 2 Particles >4µm ASTM D7647 >5000	•				-		
Chromium ppm ASTM D5185m >10 <1							
Nickel ppm ASTM D5185m >10 0 Titanium ppm ASTM D5185m 0 Silver ppm ASTM D5185m >10 1 Aluminum ppm ASTM D5185m >10 0 Lead ppm ASTM D5185m >10 0 Copper ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >20 2 Vanadium ppm ASTM D5185m >20 2 Vanadium ppm ASTM D5185m >20 2 Paticles >4µm ASTM D7647 >100 13761 Particles >6µm ASTM D7647 >3 0 <t< th=""><th>Iron</th><th>ppm</th><th>ASTM D5185m</th><th>>20</th><th>6</th><th></th><th></th></t<>	Iron	ppm	ASTM D5185m	>20	6		
Titanium ppm ASTM D5185m <1	Chromium	ppm	ASTM D5185m	>10	<1		
Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >10 1 Lead ppm ASTM D5185m >10 0 Copper ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >75 <1 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >20 2 Vellow Metal scalar *Visual NONE NONE Potassium ppm ASTM D5185m >20 2 Particles >4µm ASTM D7647 >100 NEG Particles >1µm ASTM D7647 >10 0 Particles >1µm ASTM D7647 >10 0	Nickel	ppm	ASTM D5185m	>10	0		
Aluminum ppm ASTM D5185m >10 1 Lead ppm ASTM D5185m >10 0 Copper ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 Yellow Metal scalar *Visual NONE NONE Potassium ppm ASTM D5185m<>20 2 Particles >4µm ASTM D7647 >5000 ▲ 13761 Particles >4µm ASTM D7647 >100 0 Particles >21µm ASTM D7647 >40 14 Particles >38µm ASTM D7647 >0	Titanium	ppm	ASTM D5185m		<1		
Lead ppm ASTM D5185m >10 0 Copper ppm ASTM D5185m >75 <1 Tin ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m<>20 2 Paticles >4µm ASTM D7647 >5000 ▲ 13761 Particles >4µm ASTM D7647 >160 60 Particles >38µm ASTM D7647 >10 Particles >31µm ASTM D7647 >10 0 Soit Cleanliness ISO 4406 (c) >917/4 21/18/	Silver	ppm	ASTM D5185m		0		
Copper ppm ASTM D5185m >75 <1	Aluminum	ppm	ASTM D5185m	>10	1		
Tin ppm ASTM D5185m >10 Vanadium ppm ASTM D5185m 0 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >20 2 Potassium ppm ASTM D5185m >20 2 Patricles >4µm ASTM D7647 >5000 A 13761 Particles >6µm ASTM D7647 >160 60 Particles >6µm ASTM D7647 >10 0 Particles >38µm ASTM D7647 >10 0 Particles >71µm ASTM D7647 >3 0 Soll Cleanliness scalar *Visual NONE	Lead	ppm	ASTM D5185m	>10	0		
Vanadium ppm ASTM D5185m 0 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >20 2 Potassium ppm ASTM D5185m >20 2 Patisels >4µm ASTM D7647 >5000 A 13761 Particles >6µm ASTM D7647 >160 60 Particles >6µm ASTM D7647 >10 0 Particles >6µm ASTM D7647 >10 0 Particles >71µm ASTM D7647 >10 0 Silt scalar *Visual NONE NONE Sand/Dirt <t< th=""><th>Copper</th><th>ppm</th><th>ASTM D5185m</th><th>>75</th><th><1</th><th></th><th></th></t<>	Copper	ppm	ASTM D5185m	>75	<1		
White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >20 2 Potassium ppm ASTM D5185m >20 2 Water WC Method >0.1 NEG Particles >4µm ASTM D7647 >100 Particles >41µm ASTM D7647 >10 0 Particles >38µm ASTM D7647 >10 0 Particles >38µm ASTM D7647 >10 0 Particles >38µm ASTM D7647 >3 0 Silt scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Sodium <tds< th=""><th>Tin</th><th>ppm</th><th>ASTM D5185m</th><th>>10</th><th>0</th><th></th><th></th></tds<>	Tin	ppm	ASTM D5185m	>10	0		
Yellow Metal scalar *Visual NONE Silicon ppm ASTM D5185m >20 2 Potassium ppm ASTM D5185m >20 2 Water WC Method >0.1 NEG Particles >4µm ASTM D7647 >5000 ▲ 13761 Particles >6µm ASTM D7647 >1300 ● 1528 Particles >14µm ASTM D7647 >10 0 Particles >38µm ASTM D7647 >10 0 Particles >71µm ASTM D7647 >0 0 Solt scalar *Visual NONE NONE Solt scalar *Visual NONE NONE Sodtor scalar *Visual NORM NORM <	Vanadium	ppm	ASTM D5185m		0		
Silicon ppm ASTM D5185m >20 2 Potassium ppm ASTM D5185m >20 2 Water WC Method >0.1 NEG Particles >4µm ASTM D7647 >5000 ▲ 13761 Particles >6µm ASTM D7647 >1300 ● 1528 Particles >6µm ASTM D7647 >160 60 Particles >21µm ASTM D7647 >10 0 Particles >38µm ASTM D7647 >10 0 Particles >71µm ASTM D7647 >10 0 Particles >51µm ASTM D7647 >10 0 Oil Cleanliness ISO 4406 (> 1917/14 ▲ 21/18/13 Sold scalar *Visual NONE NONE Debris scala	White Metal	scalar	*Visual	NONE	NONE		
Potassium ppm ASTM D5185m >20 2 Water WC Method >0.1 NEG Particles >4µm ASTM D7647 >5000 ▲ 13761 Particles >6µm ASTM D7647 >100 ● 1528 Particles >14µm ASTM D7647 >10 0 Particles >38µm ASTM D7647 >10 0 Particles >71µm ASTM D7647 >3 0 Particles >38µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Silt scalar YUsual NONE NONE Sad/Dirt scalar YUsual NORML NORML Appearance scalar YUsual NORML NOR	Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium ppm ASTM D5185m >20 2 Water WC Method >0.1 NEG Particles >4µm ASTM D7647 >5000 ▲ 13761 Particles >6µm ASTM D7647 >100 ● 1528 Particles >14µm ASTM D7647 >10 0 Particles >38µm ASTM D7647 >10 0 Particles >71µm ASTM D7647 >3 0 Particles >38µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Silt scalar YUsual NONE NONE Sad/Dirt scalar YUsual NORML NORML Appearance scalar YUsual NORML NOR							
Water WC Method >0.1 NEG Particles >4µm ASTM D7647 >5000 ▲ 13761 Particles >6µm ASTM D7647 >1300 ● 1528 Particles >14µm ASTM D7647 >160 60 Particles >21µm ASTM D7647 >40 14 Particles >38µm ASTM D7647 >10 0 Particles >71µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >191/1/14 ▲ 21/18/13 Silt scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORM NORML Appearance scalar *Visual NORM NORM </th <th>Silicon</th> <th>ppm</th> <th>ASTM D5185m</th> <th>>20</th> <th></th> <th></th> <th></th>	Silicon	ppm	ASTM D5185m	>20			
Particles >4μm ASTM D7647 >5000 ▲ 13761 Particles >6μm ASTM D7647 >1300 ● 1528 Particles >14μm ASTM D7647 >160 60 Particles >14µm ASTM D7647 >10 60 Particles >21µm ASTM D7647 >10 0 Particles >38µm ASTM D7647 >10 0 Particles >71µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >191714 ▲ 21/18/13 Silt scalar *Visual NONE NONE Soldith scalar *Visual NONE NORML Appearance scalar *Visual NORML NORML Gotor scalar *Visual NORM NORML <	Potassium	ppm	ASTM D5185m	>20	2		
Particles >6µm ASTM D7647 >1300 ● 1528 Particles >14µm ASTM D7647 >160 60 Particles >21µm ASTM D7647 >10 0 Particles >38µm ASTM D7647 >10 0 Particles >38µm ASTM D7647 >10 0 Particles >71µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 ▲ 21/18/13 Silt scalar *Visual NONE NONE Sold Upt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Cdor scalar *Visual NORML NORML Boron ppm ASTM D5185m 0 Manganese	Water		WC Method	>0.1	NEG		
Particles >14µm ASTM D7647 >160 60 Particles >21µm ASTM D7647 >40 14 Particles >38µm ASTM D7647 >10 0 Particles >38µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 21/18/13 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORM NORML Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Boron ppm ASTM D5185m 0 <	Particles >4µm		ASTM D7647	>5000	🔺 13761		
Particles >21µm ASTM D7647 >40 14 Particles >38µm ASTM D7647 >10 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 ▲ 21/18/13 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE Appearance scalar *Visual NORM NORML Odor scalar *Visual NORM NORML Sodium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Maganese ppm ASTM D5185m 41 </th <th>Particles >6µm</th> <th></th> <th>ASTM D7647</th> <th>>1300</th> <th>1528</th> <th></th> <th></th>	Particles >6µm		ASTM D7647	>1300	1528		
Particles >38µm ASTM D7647 >10 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 ▲ 21/18/13 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 Gotor scalar *Visual NORML NORML Molybderur scalar *Visual >0.1 NEG Barium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0	Particles >14µm		ASTM D7647	>160	60		
Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 ▲ 21/18/13 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual >0.1 NEG Sodium ppm ASTM D5185m 0 Boron ppm ASTM D518	Particles >21µm		ASTM D7647	>40	14		
Oil CleanlinessISO 4406 (c)>19/17/14▲ 21/18/13Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNORMLNORMLSodiumppmASTM D5185m0BoronppmASTM D5185m0MolybdenumppmASTM D5185m0ManganeseppmASTM D5185m0MagnesiumppmASTM D5185m318PhosphorusppmASTM D5185m355ZincppmASTM D5185m442SulfurppmASTM D5185m1267Acid Number (AN)mg KOHlgASTM D80450.488	Particles >38µm		ASTM D7647	>10	0		
Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGSodiumppmASTM D5185m0BoronppmASTM D5185m00BariumppmASTM D5185m0MolybdenumppmASTM D5185m0MagnesiumppmASTM D5185m318PhosphorusppmASTM D5185m355ZincppmASTM D5185m442SulfurppmASTM D5185m0.48	Particles >71µm		ASTM D7647	>3	0		
Debrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGSodiumppmASTM D5185m0BoronppmASTM D5185m0BariumppmASTM D5185m0MolybdenumppmASTM D5185m0MagnesiumppmASTM D5185m0MagnesiumppmASTM D5185m318PhosphorusppmASTM D5185m355ZincppmASTM D5185m442SulfurppmASTM D5185m0.48	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>		
Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGSodiumppmASTM D5185m0BoronppmASTM D5185m0BariumppmASTM D5185m0MolybdenumppmASTM D5185m6MagnesiumppmASTM D5185m0MagnesiumppmASTM D5185m318PhosphorusppmASTM D5185m355ZincppmASTM D5185m442SulfurppmASTM D5185m0.48	Silt	scalar	*Visual	NONE	NONE		
Appearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGSodiumppmASTM D5185m0BoronppmASTM D5185m0BariumppmASTM D5185m0MolybdenumppmASTM D5185m6MagnesiumppmASTM D5185m0MagnesiumppmASTM D5185m318PhosphorusppmASTM D5185m355ZincppmASTM D5185m442SulfurppmASTM D5185m1267Acid Number (AN)mg KOHlgASTM D80450.48	Debris	scalar	*Visual	NONE	NONE		
Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG Sodium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 6 Magnesium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 131 Phosphorus ppm ASTM D5185m 318 Zinc ppm ASTM D5185m 355 Sulfur ppm ASTM D5185m 442 Sulfur ppm ASTM D5185m 0.48	Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.1 NEG Sodium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 318 Phosphorus ppm ASTM D5185m 355 Zinc ppm ASTM D5185m 442 Sulfur ppm ASTM D5185m 1267 Acid Number (AN) mg KOHlg ASTM D8045 0.48	Appearance	scalar		NORML	NORML		
Sodium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 13 Barium ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 6 Magnesium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 41 Calcium ppm ASTM D5185m 318 Phosphorus ppm ASTM D5185m 355 Zinc ppm ASTM D5185m 442 Sulfur ppm ASTM D5185m 1267 Acid Number (AN) mg KOHlg ASTM D8045 0.48	Odor	scalar		NORML	NORML		
Boron ppm ASTM D5185m 13 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 6 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 41 Phosphorus ppm ASTM D5185m 318 Zinc ppm ASTM D5185m 355 Sulfur ppm ASTM D5185m 442 Acid Number (AN) mg KOH/g ASTM D5045 0.48	Emulsified Water	scalar	*Visual	>0.1	NEG		
Boron ppm ASTM D5185m 13 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 6 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 41 Phosphorus ppm ASTM D5185m 318 Zinc ppm ASTM D5185m 355 Sulfur ppm ASTM D5185m 442 Acid Number (AN) mg KOH/g ASTM D5045 0.48							
Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 6 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 41 Phosphorus ppm ASTM D5185m 318 Zinc ppm ASTM D5185m 355 Sulfur ppm ASTM D5185m 442 Acid Number (AN) mg KOH/g ASTM D5045 0.48					-		
Molybdenum ppm ASTM D5185m 6 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 41 Calcium ppm ASTM D5185m 318 Phosphorus ppm ASTM D5185m 355 Zinc ppm ASTM D5185m 442 Sulfur ppm ASTM D5185m 1267 Acid Number (AN) mg KOH/g ASTM D8045 0.48							
Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 41 Calcium ppm ASTM D5185m 318 Phosphorus ppm ASTM D5185m 355 Zinc ppm ASTM D5185m 442 Sulfur ppm ASTM D5185m 1267 Acid Number (AN) mg KOH/g ASTM D8045 0.48							
Magnesium ppm ASTM D5185m 41 Calcium ppm ASTM D5185m 318 Phosphorus ppm ASTM D5185m 355 Zinc ppm ASTM D5185m 442 Sulfur ppm ASTM D5185m 1267 Acid Number (AN) mg KOH/g ASTM D8045 0.48		ppm					
Calcium ppm ASTM D5185m 318 Phosphorus ppm ASTM D5185m 355 Zinc ppm ASTM D5185m 442 Sulfur ppm ASTM D5185m 1267 Acid Number (AN) mg KOH/g ASTM D8045 0.48	-						
Phosphorus ppm ASTM D5185m 355 Zinc ppm ASTM D5185m 442 Sulfur ppm ASTM D5185m 1267 Acid Number (AN) mg KOH/g ASTM D8045 0.48	-	ppm					
Zinc ppm ASTM D5185m 442 Sulfur ppm ASTM D5185m 1267 Acid Number (AN) mg KOH/g ASTM D8045 0.48		ppm					
Sulfur ppm ASTM D5185m 1267 Acid Number (AN) mg KOH/g ASTM D8045 0.48		ppm					
Acid Number (AN) mg KOH/g ASTM D8045 0.48							
Visc @ 40°C cSt ASTM D445 46.3	. ,						
	Visc @ 40°C	cSt	ASTM D445		46.3		





Contact/Location: WEBCHECK IN PALWESWC - DENIS PINNOCK - PALWINFL