

OIL ANALYSIS REPORT

Paul G. Blazer [Paul G. Blazer] Oil - Port Reduction Gear

Port Reduction Gear

Fluid GEAR OIL SAE 85W140 (180 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Kirk James)

Wear

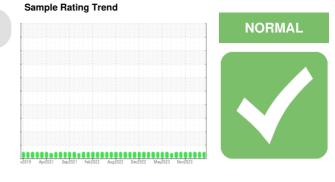
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

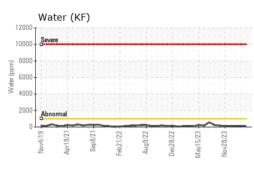
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

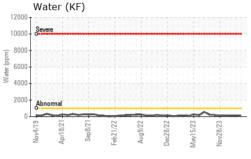


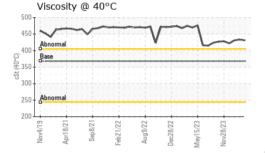
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0845829	WC0719260	WC0845922
Sample Date		Client Info		14 Apr 2024	20 Mar 2024	25 Jan 2024
Machine Age	hrs	Client Info		6170	5660	4464
Oil Age	hrs	Client Info		6170	5660	4464
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	10	8	10
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	0	1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	3	2
Lead	ppm	ASTM D5185m	>100	0	<1	0
Copper	ppm	ASTM D5185m	>50	0	1	1
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base 400	current 88	history1 81	history2 87
	ppm ppm					
Boron		ASTM D5185m	400	88	81	87
Boron Barium	ppm	ASTM D5185m ASTM D5185m	400 200	88 0	81 0	87 0
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	400 200	88 0 0	81 0 0	87 0 1
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	400 200 12	88 0 0 <1	81 0 0 <1	87 0 1 <1
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	400 200 12 12	88 0 0 <1 8	81 0 0 <1 13	87 0 1 <1 21
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	400 200 12 12 12 150 1650 125	88 0 0 <1 8 19	81 0 0 <1 13 43 1010 22	87 0 1 <1 21 25 986 30
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	400 200 12 12 12 150 1650	88 0 0 <1 8 19 995	81 0 0 <1 13 43 1010	87 0 1 <1 21 25 986
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	400 200 12 12 12 150 1650 125	88 0 2 3 3 4 3 4 9 9 9 2 1690	81 0 0 <1 13 43 1010 22	87 0 1 <1 21 25 986 30
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	400 200 12 12 150 1650 125 22500	88 0 2 3 3 4 3 8 19 995 9 9 21690	81 0 0 <1 13 43 1010 22 22658	87 0 1 <1 21 25 986 30 19399
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 ASTM D5185m	400 200 12 12 150 1650 125 22500	88 0 0 <1 8 19 995 9 21690 current	81 0 0 <1 13 43 1010 22 22658 history1	87 0 1 <1 21 25 986 30 19399 history2
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 method ASTM D5185m	400 200 12 12 150 1650 125 22500	88 0 0 <1 8 19 995 9 21690 current 3	81 0 0 <1 13 43 1010 22 22658 history1 1	87 0 1 <1 21 25 986 30 19399 history2 3
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm 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 ASTM D5185m	400 200 12 12 150 1650 125 22500 Limit/base	88 0 0 <1 8 19 995 9 21690 current 3 1	81 0 0 <1 13 43 1010 22 22658 history1 1 1	87 0 1 <1 21 25 986 30 19399 history2 3 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	400 200 12 12 150 1650 125 22500 limit/base >50	88 0 0 <1 8 19 995 9 21690 current 3 1 6	81 0 0 <1 13 43 1010 22 22658 history1 1 1 7	87 0 1 <1 21 25 986 30 19399 history2 3 <1 7
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	400 200 12 12 150 1650 125 22500 limit/base >50 >20 >0.1	88 0 0 <1 8 19 995 9 21690 <u>current</u> 3 1 6 0.008	81 0 0 <1 13 43 1010 22 22658 history1 1 1 1 7 0.012	87 0 1 <1 21 25 986 30 19399 history2 3 <1 7 0.012



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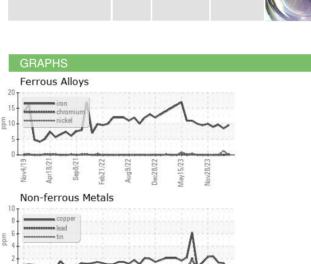


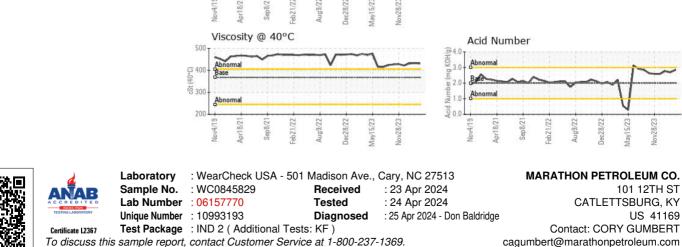




VISUAL		method	limit/base	current	history1	history2		
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG		
Free Water	scalar	*Visual		NEG	NEG	NEG		
FLUID PROPERTIES		method	limit/base	current	history1	history2		
Visc @ 40°C	cSt	ASTM D445	368	431	433	431		
SAMPLE IMAGES		method	limit/base	current	history1	history2		
Color Color								

Bottom





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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Page 2 of 2

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