

OIL ANALYSIS REPORT

Area Kentucky [Kentucky] Oil - Starboard Reduction Gear

Component Starboard Reduction Gear

SAE 30W (26 GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

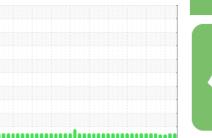
All component wear rates are normal.

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.





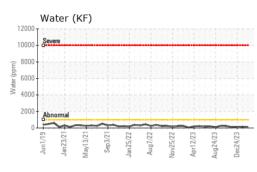
NORMAL

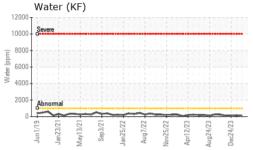
Sample Rating Trend

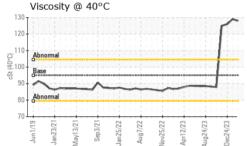
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0859783	WC0845732	WC0859839
Sample Date		Client Info		16 Feb 2024	20 Jan 2024	24 Dec 2023
Machine Age	hrs	Client Info		12937	12452	11959
Oil Age	hrs	Client Info		1654	1170	676
Oil Changed		Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	NORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	7	5	4
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	<1	<1
Lead	ppm	ASTM D5185m	>100	0	<1	<1
Copper	ppm	ASTM D5185m	>50	3	2	3
Tin	ppm	ASTM D5185m	>10	0	<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	46	history1 42	history2 41
	ppm ppm		limit/base			
Boron		ASTM D5185m	limit/base	46 0 24	42 0 25	41
Boron Barium	ppm	ASTM D5185m ASTM D5185m	limit/base	46 0	42 0	41 0
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	46 0 24	42 0 25 0 386	41 0 25 <1 403
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	46 0 24 0	42 0 25 0	41 0 25 <1
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	46 0 24 0 371	42 0 25 0 386	41 0 25 <1 403
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	46 0 24 0 371 747	42 0 25 0 386 717	41 0 25 <1 403 739
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	limit/base	46 0 24 0 371 747 809	42 0 25 0 386 717 840	41 0 25 <1 403 739 833
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	limit/base	46 0 24 0 371 747 809 616	42 0 25 0 386 717 840 654	41 0 25 <1 403 739 833 661
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		46 0 24 0 371 747 809 616 7685	42 0 25 0 386 717 840 654 8194	41 0 25 <1 403 739 833 661 7349
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	limit/base	46 0 24 0 371 747 809 616 7685	42 0 25 0 386 717 840 654 8194 history1	41 0 25 <1 403 739 833 661 7349 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base	46 0 24 0 371 747 809 616 7685 current 1	42 0 25 0 386 717 840 654 8194 history1 1 <1 1	41 0 25 <1 403 739 833 661 7349 history2 1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	limit/base >50	46 0 24 0 371 747 809 616 7685 <u>current</u> 1 1	42 0 25 0 386 717 840 654 8194 history1 1 <	41 0 25 <1 403 739 833 661 7349 history2 1 2
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	limit/base >50 >20	46 0 24 0 371 747 809 616 7685 <u>current</u> 1 1 1 0	42 0 25 0 386 717 840 654 8194 history1 1 <1 1	41 0 25 <1 403 739 833 661 7349 history2 1 2 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm %	ASTM D5185m ASTM D5185m	limit/base >50 >20 >0.1	46 0 24 0 371 747 809 616 7685 <u>current</u> 1 1 1 0 0 0.009	42 0 25 0 386 717 840 654 8194 history1 1 < 1 <1 1 0.014	41 0 25 <1 403 739 833 661 7349 history2 1 2 0 0.008



OIL ANALYSIS REPORT

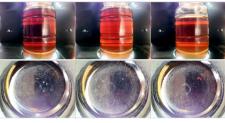






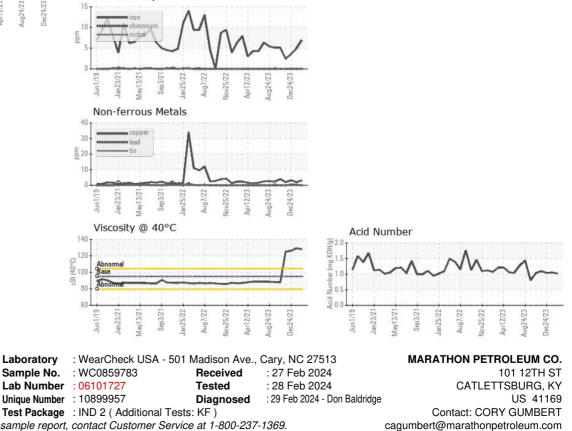
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	95.0	128	129	126
SAMPLE IMAGES	3	method	limit/base	current	history1	history2

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)

Certificate L2367

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