

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL





SAMPLE INFORM	ΜΑΤΙΟΝ	method				history2	
Sample Number		Client Info		WC0886745	WC0784151	WC0708355	
Sample Date		Client Info		12 Mar 2024	02 Jan 2024	19 Nov 2022	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		Not Changd	N/A	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2	
Water		WC Method	>0.05	NEG	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>20	14	11	13	
Chromium	ppm	ASTM D5185m	>20	0	<1	0	
Nickel	ppm	ASTM D5185m	>20	0	0	0	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m		0	0	0	
Aluminum	ppm	ASTM D5185m	>20	0	2	<1	
Lead	ppm	ASTM D5185m	>20	0	0	0	
Copper	ppm	ASTM D5185m	>20	4	4	4	
Tin	ppm	ASTM D5185m	>20	<1	0	0	
Antimony	ppm	ASTM D5185m					
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	current 0	history1 0	history2 0	
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current 0 0	history1 0 0	history2 0 0	
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 0 0 0	history1 0 0 <1	history2 0 0 <1	
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 0 0 0 <1	history1 0 <1 0	history2 0 <1 <1	
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 0 0 0	history1 0 <1 0 5	history2 0 <1 <1 5	
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 0 0 0 <1 4 86	history1 0 <1 0 5 91	history2 0 <1 <1 5 92	
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 40 250	current 0 0 0 4 86 370	history1 0 0 <1 0 5 91 402	history2 0 <1 <1 5 92 380	
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	methodASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D5185m	limit/base 40 250 310	Current 0 0 0 <1 4 86 370 484	history1 0 0 <1 0 5 91 402 494	history2 0 <1 <1 5 92 380 468	
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 40 250 310 2540	current 0 0 0 0 4 86 370 484 5442	history1 0 0 <1 0 5 91 402 494 5393	history2 0 0 <1 <1 5 92 380 468 4983	
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 40 250 310 2540 limit/base	current 0 0 <1 4 86 370 484 5442 current	history1 0 0 <1 0 5 91 402 494 5393 history1	history2 0 - - - 5 92 380 468 4983 history2	
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base 40 250 310 2540 limit/base >15	current 0 0 0 0 4 86 370 484 5442 current 9	history1 0 0 <1 0 5 91 402 494 5393 history1 5	history2 0 -0 <1 <1 5 92 380 468 4983 history2 7	
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base 40 250 310 2540 limit/base >15	current 0 0 0 1 4 86 370 484 5442 current 9 2	history1 0 0 <1 0 5 91 402 494 5393 history1 5 0	history2 0 -	
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base 40 250 310 2540 2540 2540 2540 2540 2540	current 0 0 0 0 1 4 86 370 484 5442 0 2 0 2 0	history1 0 0 0 <1 0 5 91 402 494 5393 history1 5 0 <1	history2 0 0 <1 5 92 380 468 4983 history2 7 2 0 0	
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base 40 250 310 2540 limit/base >15 >20 limit/base	current 0 0 0 0 2 0 2 0 current	history1 0 0 <1 0 5 91 402 494 5393 history1 5 0 <1 history1	history2 0 0 <1 5 92 380 468 4983 history2 7 2 0 1	
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base 40 250 310 2540 imit/base >15 >20 limit/base >10000	current 0 0 0 0 1 4 86 370 484 5442 current 9 2 0 current 355	history1 0 0 0 91 402 494 5393 history1 5 0 history1 5 0 <1 history1 57	history2 0 0 <1 5 92 380 468 4983 history2 7 2 0 1 1 5 92 380 468 4983 history2 7 2 0 history2 1156	
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base 40 250 310 2540 limit/base >15 >20 limit/base >10000 >1300	current 0 0 0 0 1 4 86 370 484 5442 0 2 0 22 0 current 355 95	history1 0 0 <1 0 5 91 402 494 5393 history1 5 0 <1 5 0 <1 history1 57 31	history2 0 <1 <1 5 92 380 468 4983 history2 7 2 0 history2 7 15 9 15 468 4983	
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base 40 250 310 2540 2540 2540 2540 2540 2540 210000 >10000 >1300 >160	current 0 0 0 0 1 4 86 370 484 5442 0 2 0 22 0 current 3555 95 10	history1 0 0 <1 0 5 91 402 494 5393 history1 5 0 <1 5 0 <1 history1 57 31 6	history2 0 <1 5 92 380 468 4983 history2 7 2 0 history2 1156 168 17	
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base 40 250 310 2540 2540 2540 2540 2540 2540 210000 >10000 >1300 >1300 >160 >40	current 0 0 0 0 0 1 4 86 370 484 5442 current 9 2 0 current 3555 95 10 3	history1 0 0 <1 0 5 91 402 494 5393 history1 5 0 <1 5 0 <1 history1 57 31 6 2	history2 0 - - 5 92 380 468 4983 history2 7 2 0 history2 7 12 0 history2 1156 168 17 5	
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base 40 250 310 2540 2540 2540 2540 2540 210 2540 210 210000 21300 2160 240 210	current 0 0 0 0 0 0 0 0 0 4 86 370 484 5442 current 9 2 0 current 355 95 10 3 0	history1 0 0 <1 0 5 91 402 494 5393 history1 5 0 <1 5 0 <1 57 31 6 2 0	history2 0 <1 <1 5 92 380 468 4983 history2 7 2 0 history2 7 2 0 history2 1156 168 17 5 0	
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >38µm Particles >38µm Particles >71µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base 40 250 310 2540 limit/base >15 >20 limit/base >10000 >10000 >1300 >160 >40 >10 >3	current 0 0 0 0 0 0 0 0 4 86 370 484 5442 current 9 2 0 current 355 95 10 3 0 0	history1 0 0 <1 0 5 91 402 494 5393 history1 5 0 <1 bistory1 5 0 <1 bistory1 57 31 6 2 0 0 0 0 0 0 0 0 0 0 0 0 0	history2 0 <1 <1 5 92 380 468 4983 history2 7 2 0 history2 7 2 0 history2 1156 168 17 5 0 0 0	

Machine Ic MACHINE 505 (S/N 6895-400-95) Component

Hydraulic System

NOCO NOCOLUBE AW 46 (170 GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

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



OIL ANALYSIS REPORT









FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.625	0.51	0.50
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	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
	IES	method	limit/base	current	history1	history2
I LOID I NOI LINI		memou	in in base	current	mistory	Thistory 2
Visc @ 40°C	cSt	ASTM D445	46.0	46.1	46.2	45.9
SAMPLE IMAGES		method				history2

Color



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) F: (716)425-7251

Certificate L2367

Contact/Location: RON ORT - AMPROC

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