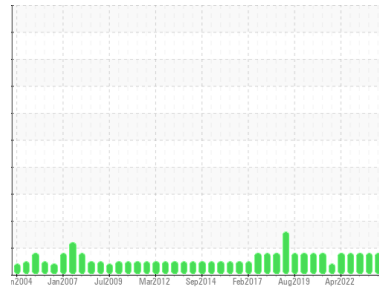




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area

WCR [100000107832]

Machine Id

DIXNGEN1BRGNDE

Component

Non-Drive End Bearing

Fluid

MOBIL DTE OIL HVY MEDIUM (25 LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0908344	WC0794340	WC0794328
Sample Date	Client Info			11 Mar 2024	17 Oct 2023	30 Mar 2023
Machine Age	hrs	Client Info		169814	169289	166876
Oil Age	hrs	Client Info		4031	3506	5358
Oil Changed	Client Info			Changed	Filtered	Changed
Sample Status				ATTENTION	ATTENTION	ATTENTION

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	0	0
Iron	ppm	ASTM D5185(m)	>20	0	0	0
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	0	0	0
Lead	ppm	ASTM D5185(m)	>20	<1	1	2
Copper	ppm	ASTM D5185(m)	>20	1	1	2
Tin	ppm	ASTM D5185(m)	>20	0	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

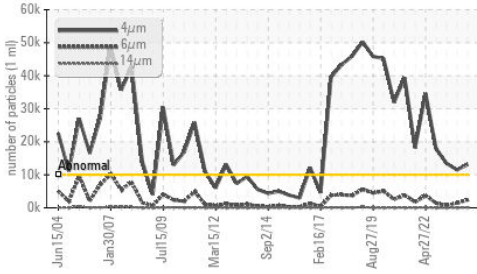
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		0	<1	<1
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		0	<1	0
Calcium	ppm	ASTM D5185(m)		<1	<1	2
Phosphorus	ppm	ASTM D5185(m)		130	133	139
Zinc	ppm	ASTM D5185(m)		85	87	87
Sulfur	ppm	ASTM D5185(m)		1563	1592	1040
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<1	2	<1
Sodium	ppm	ASTM D5185(m)		<1	<1	0
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0
Water	%	ASTM D6304*	>2	0.001	0.00	0.001
ppm Water	ppm	ASTM D6304*		3	0.00	6.2

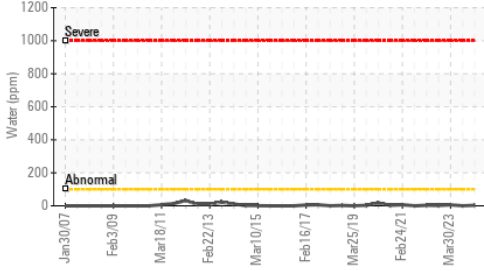
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	13140	11508	13425
Particles >6µm		ASTM D7647	>2500	2352	1458	738
Particles >14µm		ASTM D7647	>160	99	35	5
Particles >21µm		ASTM D7647	>40	21	8	2
Particles >38µm		ASTM D7647	>10	3	1	0
Particles >71µm		ASTM D7647	>3	1	1	0

Oil Cleanliness	ISO 4406 (c)	>20/18/14	21/18/14	21/18/12	21/17/10
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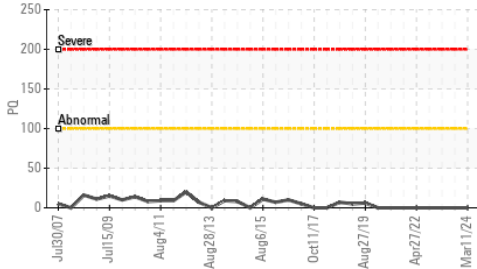
Particle Trend



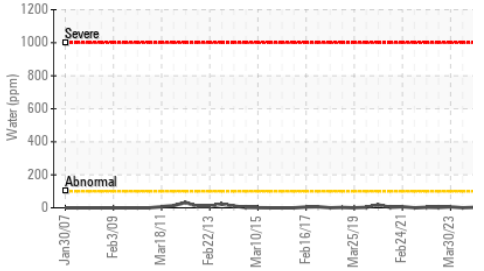
Water (KF)



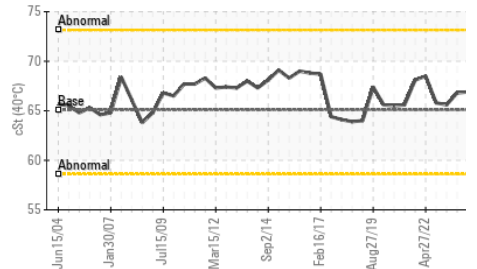
PQ



Water (KF)



Viscosity @ 40°C



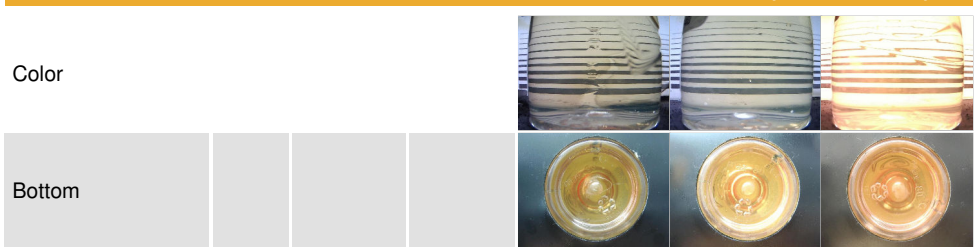
FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D974*	0.11	0.14	0.11
White Metal	scalar Visual*	NONE	NONE	NONE
Yellow Metal	scalar Visual*	NONE	NONE	NONE
Precipitate	scalar Visual*	NONE	NONE	NONE
Silt	scalar Visual*	NONE	NONE	NONE
Debris	scalar Visual*	NONE	NONE	NONE
Sand/Dirt	scalar Visual*	NONE	NONE	NONE
Appearance	scalar Visual*	NORML	NORML	NORML
Odor	scalar Visual*	NORML	NORML	NORML
Emulsified Water	scalar Visual*	NEG	NEG	NEG
Free Water	scalar Visual*	NEG	NEG	NEG

FLUID PROPERTIES

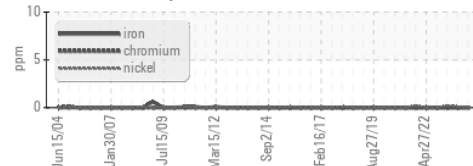
method	limit/base	current	history1	history2
Visc @ 40°C cSt	ASTM D7279(m)	66.9	66.8	65.6

SAMPLE IMAGES

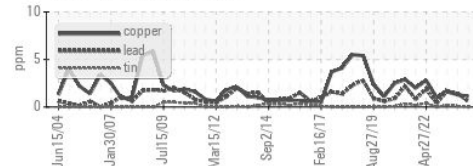


GRAPHS

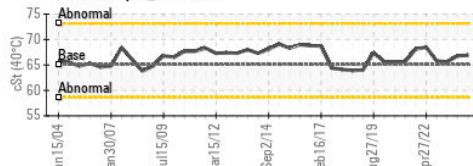
Ferrous Alloys



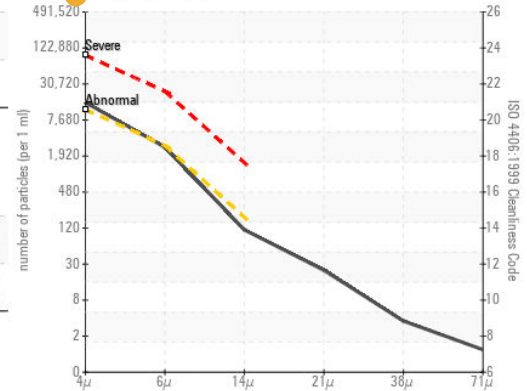
Non-ferrous Metals



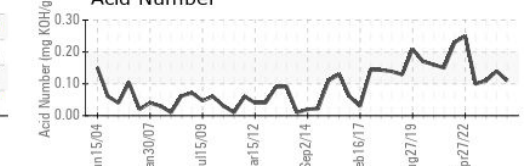
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0908344
Lab Number : 02627016
Unique Number : 5760148
Test Package : IND 2 (Additional Tests: KF, PQ, PrcCount, TAN Man)

ALGONQUIN POWER SYSTEMS INC.
 354 DAVIS ROAD
 OAKVILLE, ON
 CA L6J 2X1

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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 F: x: